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(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human breast cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of breast cancer.

# NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST CANCER

## RELATED APPLICATIONS

The present application claims priority to U.S. provisional application serial no. 60/176,077, filed January 14, 2000, U.S. provisional application serial no. 60/189,167, filed March 14, 2000, U.S. provisional application serial no. 60/192,099, filed March 24, 2000, U.S. provisional application serial no. 60/193,480, filed March 29, 2000, U.S. provisional application serial no. 60/205,230, filed May 15, 2000, U.S. provisional application serial no. 60/211,315, filed June 9, 2000, U.S. provisional application serial no. 60/220,534, filed July 25, 2000, all of which are expressly incorporated by reference.

## FIELD OF THE INVENTION

The field of the invention is breast cancer, including diagnosis, characterization, management, and therapy of breast cancer.

## BACKGROUND OF THE INVENTION

The increased number of cancer cases reported in the United States, and, indeed, around the world, is a major concern. Currently there are only a handful of treatments available for specific types of cancer, and these provide no absolute guarantee of success. In order to be most effective, these treatments require not only an early detection of the malignancy, but a reliable assessment of the severity of the malignancy.

The incidence of breast cancer, a leading cause of death in women, has been gradually increasing in the United States over the last thirty years. In 1997, it was estimated that 181,000 new cases were reported in the U.S., and that 44,000 people would die of breast cancer (Parker *et al*, 1997, *CA Cancer J. Clin.* 47:5-27; Chu *et al*, 1996, *J. Nat. Cancer Inst.* 88:1571-1579). While the pathogenesis of breast cancer is unclear, transformation of normal breast epithelium to a malignant phenotype may be the result of genetic factors, especially in women under 30 (Miki *et al.*, 1994, *Science*, 266:66-71). The discovery and characterization of *BRCA1* and *BRCA2* has recently expanded our knowledge of genetic factors which can contribute to familial breast

cancer. Germ-line mutations within these two loci are associated with a 50 to 85% lifetime risk of breast and/or ovarian cancer (Casey, 1997, *Curr. Opin. Oncol.* 9:88-93; Marcus *et al*, 1996, *Cancer* 77:697-709). However, it is likely that other, non-genetic factors also have a significant effect on the etiology of the disease. Regardless of its origin, breast cancer morbidity and mortality increases significantly if it is not detected early in its progression. Thus, considerable effort has focused on the early detection of cellular transformation and tumor formation in breast tissue.

Currently, the principal manner of identifying breast cancer is through detection of the presence of dense tumorous tissue. This may be accomplished to varying degrees of effectiveness by direct examination of the outside of the breast, or through mammography or other X-ray imaging methods (Jatoi, 1999, *Am. J. Surg.* 177:518-524). The latter approach is not without considerable cost, however. Every time a mammogram is taken, the patient incurs a small risk of having a breast tumor induced by the ionizing properties of the radiation used during the test. In addition, the process is expensive and the subjective interpretations of a technician can lead to imprecision, *e.g.*, one study showed major clinical disagreements for about one-third of a set of mammograms that were interpreted individually by a surveyed group of radiologists. Moreover, many women find that undergoing a mammogram is a painful experience. Accordingly, the National Cancer Institute has not recommended mammograms for women under fifty years of age, since this group is not as likely to develop breast cancers as are older women. It is compelling to note, however, that while only about 22% of breast cancers occur in women under fifty, data suggests that breast cancer is more aggressive in pre-menopausal women.

It would therefore be beneficial to provide specific methods and reagents for the diagnosis, staging, prognosis, monitoring, and treatment of diseases associated with breast cancer, or to indicate a predisposition to such for preventative measures.

## SUMMARY OF THE INVENTION

The invention relates to novel genes associated with breast cancer as well as methods of assessing whether a patient is afflicted with breast cancer. The methods of the present invention comprise the step of comparing the level of expression of a marker in a patient sample, wherein the marker is listed in Tables 1-6 and the normal level of

expression of the marker in a control, *e.g.*, a sample from a patient without breast cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer. Preferably, a protein corresponding to the marker is a secreted protein or is predicted to correspond to a secreted protein. Alternatively, the marker can correspond to a protein having an extracellular portion, to one which is normally expressed in breast tissue at a detectable level, or both.

In one method, the marker(s) are preferably selected such that the positive predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is over- or under-expressed by at least two-fold in at least about 20% of stage 0 breast cancer patients, stage I breast cancer patients, stage IIA breast cancer patients, stage IIB breast cancer patients, stage IIIA breast cancer patients, stage IIIB breast cancer patients, stage IV breast cancer patients, grade I breast cancer patients, grade II breast cancer patients, grade III breast cancer patients, malignant breast cancer patients, ductal carcinoma breast cancer patients, and lobular carcinoma breast cancer patients.

In one embodiment of the methods of the present invention, the patient sample is a breast tissue-associated body fluid. Such fluids include, for example, blood fluids, lymph and cystic fluids, as well as nipple aspirates. In another embodiment, the sample comprises cells obtained from the patient. In another embodiment, the patient sample is *in vivo*.

In accordance with the methods of the present invention, the level of expression of the marker in a sample can be assessed, for example, by detecting the presence in the sample of:

- a protein or a fragment of the protein corresponding to the marker (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein or a fragment of the protein)
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker
- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially

homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed in Tables 1-6 fixed thereto at selected positions)

- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.

The methods of the present invention are particularly useful for patients with an identified breast mass or symptoms associated with breast cancer. The methods of the present invention can also be of particular use with patients having an enhanced risk of developing breast cancer (*e.g.*, patients having a familial history of breast cancer, patients identified as having a mutant oncogene, and patients at least about 50 years of age). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of a breast cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-6 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with breast cancer. A significantly enhanced level of expression of one or more of the markers listed in Tables 1-6 in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. The markers of Tables 1-6 may also be used in combination with known breast cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with breast cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-6, and

b) the normal level of expression of the marker in a control non-breast cancer sample.

A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer.

The methods of the present invention further include a method of assessing the efficacy of a test compound for inhibiting breast cancer in a patient. This method comprises comparing:

a) expression of a marker in a first sample obtained from the patient and maintained in the presence of the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and

b) expression of the marker in a second sample obtained from the patient and maintained in the absence of the test compound.

A significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting breast cancer in the patient. For example, the first and second samples can be portions of a single sample obtained from the patient or portions of pooled samples obtained from the patient.

The invention further relates to a method of assessing the efficacy of a therapy for inhibiting breast cancer in a patient. This method comprises comparing:

a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and

b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting breast cancer in the patient.

It will be appreciated that in these methods the "therapy" may be any therapy for treating breast cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, a breast tumor. Thus, the methods of the invention may

be used to evaluate a patient before, during and after therapy, for example, to evaluate the reduction in tumor burden.

The present invention therefore further comprises a method for monitoring the progression of breast cancer in a patient, the method comprising:

a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6;

b) repeating step a) at a subsequent time point; and

c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of breast cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting breast cancer in a patient. This method comprises the steps of:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-6 in each of the aliquots; and

d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting breast cancer in a patient. This method comprises the steps of:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker listed in Tables 1-6 in each of the aliquots; and

d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with breast cancer. This kit comprises reagents for assessing expression of a marker listed in Tables 1-6.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting breast cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed in Tables 1-6, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of breast cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed in Tables 1-6. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker which is also listed in Tables 1-6.

The invention also includes a kit for assessing the presence of breast cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed in Tables 1-6. The kit may also comprise a plurality of probes, wherein each of the probes binds specifically with a transcribed polynucleotide corresponding to a different marker listed in Tables 1-6.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast cancer. The method comprises isolating a protein or protein fragment corresponding to a marker listed in Tables 1-6, immunizing a mammal using the isolated protein or protein fragment, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma. The invention also includes an antibody produced by this method.

The invention further includes a method of assessing the breast carcinogenic or irregular growth promoting potential of a test compound. This method comprises the steps of:

a) maintaining separate aliquots of breast cells in the presence and absence of the test compound; and

b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed in Tables 1-6. A significantly enhanced level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses breast carcinogenic or irregular growth promoting potential.

Additionally, the invention includes a kit for assessing the breast carcinogenic potential of a test compound. The kit comprises breast cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed in Tables 1-6.

The invention further includes a method of treating a patient afflicted with breast cancer, comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed in Tables 1-6.

The invention includes a method of inhibiting breast cancer in a patient at risk for developing breast cancer. This method comprises inhibiting expression or overexpression of a gene corresponding to a marker listed in Tables 1-6.

It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known breast cancer markers. It will further be appreciated that the methods and kits may be used to identify cancers other than breast cancer.

## DETAILED DESCRIPTION OF THE INVENTION

The invention relates to newly discovered correlations between expression of certain markers and the cancerous state of breast cells. It has been discovered that the level of expression of individual markers and combinations of markers described herein correlates with the presence of breast cancer in a patient. Methods are provided for detecting the presence of breast cancer in a sample, the absence of breast cancer in a sample, the stage of breast cancer, and other characteristics of breast cancer that are relevant to prevention, diagnosis, characterization, and therapy of breast cancer in a patient.

Definitions

As used herein, each of the following terms has the meaning associated with it in this section.

The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed in Tables 1-6. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*e.g.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences). As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

As used herein a "polynucleotide corresponds to" another (a first) polynucleotide if it is related to the first polynucleotide by any of the following relationships: 1) The second polynucleotide comprises the first polynucleotide and the second polynucleotide encodes a gene product. 2) The second polynucleotide is 5' or 3' to the first polynucleotide in cDNA, RNA, genomic DNA, or fragment of any of these polynucleotides. For example, a second polynucleotide may be fragment of a gene that includes the first and second polynucleotides. The first and second polynucleotides are related in that they are components of the gene coding for a gene product, such as a protein or antibody. However, it is not necessary that the second polynucleotide comprises or overlaps with the first polynucleotide to be encompassed within the definition of "corresponding to" as used herein. For example, the first polynucleotide may be a fragment of a 3' untranslated region of the second polynucleotide. The first and second polynucleotide may be fragments of a gene coding for a gene product. The second polynucleotide may be an exon of the gene while the first polynucleotide may be an intron of the gene. 3) The second polynucleotide is the complement of the first polynucleotide.

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention. Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

A "breast-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through breast cells or into which cells, nucleic acids or proteins shed from breast cells are capable of passing. Exemplary breast-associated body fluids include blood fluids, lymph, cystic fluid, urine and nipple aspirates.

The "normal" level of expression of a marker is the level of expression of the marker in breast cells of a patient, *e.g.* a human, not afflicted with breast cancer.

"Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in

terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher or lower than the normal level of expression of a marker if the level of expression of the marker is greater or less, respectively, than the normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five times, higher or lower, respectively, than the normal level of expression of the marker.

Breast cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, breast cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

Description

The present invention is based, in part, on identification of novel markers which are expressed at a different level in breast cancer cells than they are in normal (*i.e.* non-cancerous) breast cells. The markers of the invention correspond to nucleic acid and polypeptide molecules which can be detected in one or both of normal and cancerous breast cells. The presence, absence, or level of expression of one or more of these markers in breast cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state of breast cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

1) assessing whether a patient is afflicted with breast cancer;
2) assessing the stage of breast cancer in a human patient;
3) assessing the grade of breast cancer in a patient;
4) assessing the benign or malignant nature of breast cancer in a patient;
5) assessing the histological type of neoplasm (*e.g.* ductal, lobular, etc.) associated with breast cancer in a patient;
6) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast cancer;
7) assessing the presence of breast cancer cells;
8) assessing the efficacy of one or more test compounds for inhibiting breast cancer in a patient;
9) assessing the efficacy of a therapy for inhibiting breast cancer in a patient;
10) monitoring the progression of breast cancer in a patient;
11) selecting a composition or therapy for inhibiting breast cancer in a patient;
12) treating a patient afflicted with breast cancer;
13) inhibiting breast cancer in a patient;
14) assessing the carcinogenic potential of a test compound; and

15) inhibiting breast cancer in a patient at risk for developing breast cancer.

The invention thus includes a method of assessing whether a patient is afflicted with breast cancer. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.,* a non-breast cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer. The marker is selected from the group consisting of the markers listed in Tables 1-6.

The polynucleotides set forth in Tables 1-6 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. In Tables 1 and 3, SEQ ID NOS 316-470, 793-890, 1255-1363, 2125-2454 and 3352-3626 are preferred and SEQ ID NOS 1-315, 676-792, 1056-1254, 1645-2124 and 2942-3351 are most preferred. In Tables 2 and 4, SEQ ID NOS: 1879-1959 are preferred and SEQ ID NOS: 1-1878 are most preferred. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-6. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all describe herein) containing these polynucleotides are also provided by this invention.

The invention also encompasses polynucleotides which differ from that of the polynucleotides described above, but which produce the same phenotypic effect, *e.g.* allelic variants. These altered, but phenotypically equivalent polynucleotides are referred to "equivalent nucleic acids." This invention also encompasses polynucleotides characterized by changes in non-coding regions that do not alter the polypeptide produced therefrom when compared to the polynucleotide herein. This invention further encompasses polynucleotides, which hybridize to the polynucleotides of the subject invention under conditions of moderate or high stringency. Alternatively, the polynucleotides are at least 85%, or at least 90%, or more preferably, greater or equal to 95% identical as determined by a sequence alignment program when run under default parameters.

Any marker or combination of markers listed in Tables 1-6, as well as any known markers in combination with the markers set forth in Tables 1-6, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in breast cancer cells and the level of expression of the same marker in normal breast cells is as great as possible. Although this difference can be as small as the limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method, and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It is recognized that certain markers correspond to proteins which are secreted from breast cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein corresponding to each of these markers can be detected in an breast-associated body fluid sample, which may be more easily collected from a human patient than a tissue biopsy sample. In addition, preferred *in vivo* techniques for detection of a protein corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

Although not every marker corresponding to a secreted protein is indicated as such herein, it is a simple matter for the skilled artisan to determine whether any particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of a breast cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About $8 \times 10^5$ 293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) $CO_2$,

95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424- 54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-$^{35}$S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% $CO_2$ atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of breast-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluid, cystic fluid, urine and nipple aspirates. In these embodiments, the level of expression of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in a breast-associated body fluid obtained from a patient. The fluid can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the marker in the fluid.

Many breast-associated body fluids (*i.e.* usually excluding urine) can have breast cells therein, particularly when the breast cells are cancerous, and, more particularly, when the breast cancer is metastasizing. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins having at least one portion which is displayed on the surface of cells which express it. It is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such proteins on whole cells, or well known computer-based sequence analysis methods (*e.g.* the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at

least one cell-surface domain). Expression of a marker corresponding to a protein having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (*e.g.* using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods.

In a preferred embodiment, expression of a marker is assessed using an antibody (*e.g.* a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (*e.g.* an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {*e.g.* biotin-streptavidin} ), or an antibody fragment (*e.g.* a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein or a fragment thereof, corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction methods prior to hybridization with the reference polynucleotide; preferably, it is not amplified. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide polymorphisms, deletions, etc.) of a marker of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum detection limit of the method used to assess expression in at least one of normal breast cells and cancerous breast cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- or under-expressed in cancers of various types, including specific breast cancers, as well as other cancers such as ovarian cancer, cervical cancer, etc. For example, it will be confirmed that some of the markers of the invention are over- or under-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of breast cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with breast cancer of various stages (*i.e.* stage 0, I, II, II, and IV breast cancers, as well as subclassifications IIA, IIB, IIIA, and IIIB, using the FIGO Stage Grouping system for primary carcinoma of the breast; (see Breast, In: *American Joint Committee on Cancer: AJCC Cancer Staging Manual.* Lippincott-Raven Publishers, 5th ed., 1997, pp. 171-180), of various histologic subtypes (*e.g.* serous, mucinous, endometroid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma, cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma,

endometrioid stromal sarcoma, mesodermal (Müllerian) mixed tumor, mesonephroid tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant breast tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (*i.e.* grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue} )). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of breast cancer in patients. In addition, these compositions, kits, and methods can be used to detect and differentiate lobular and ductal carcinoma breast cancers.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of breast cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with an breast cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a PPV of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a significantly enhanced level of expression of more than one of the plurality of markers

in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. In another embodiment, a significantly lower level of expression in the sample of each of the plurality of markers, relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. In yet another embodiment, a significantly enhanced level of expression of one or more markers and a significantly lower level of expression of one or more markers in a sample relative to the corresponding normal levels, is an indication that the patient is afflicted with breast cancer. When a plurality of markers is used, it is preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-breast origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which has a restricted tissue distribution, *e.g.,* normally not expressed in a non-breast tissue.

Only a small number of markers are known to be associated with breast cancers (*e.g. BRCA1* and *BRCA2*). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example. It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl, abr, akt2, apc, bcl2α, bcl2β, bcl3, bcr, brca1, brca2, cbl, ccnd1, cdc42, cdk4, crk- II, csf1r/fms, dbl, dcc, dpc4/smad4, e-cad, e2f1/rbap, egfr/erbb-1, elk1, elk3, eph, erg, ets1, ets2, fer, fgr/src2, fli1/ergb2, fos, fps/fes, fra1, fra2, fyn, hck, hek, her2/erbb- 2/neu, her3/erbb-3, her4/erbb-4, hras1, hst2, hstf1, igfbp2, ink4a, ink4b, int2/fgf3, jun, junb, jund, kip2, kit, kras2a, kras2b, lck, lyn, mas, max, mcc, mdm2, met, mlh1, mmp10, mos, msh2, msh3, msh6, myb, myba, mybb, myc, mycl1, mycn, nf1, nf2, nme2, nras, p53, pdgfb, phb, pim1, pms1, pms2, ptc, pten, raf1, rap1a, rb1, rel, ret, ros1, ski, src1, tal1,*

*tgfbr2, tgfb3, tgfbr3, thra1, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1*, and *yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin), matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metallopeptidase 1, cysteine-rich metalloprotease (disintegrin) and its precursors, subtilisin-like protease Pc8 and its precursors, chymotrypsin, snake venom-like protease, cathepsin l, cathepsin D

(lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3, extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoeitin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene c-*cot*, oncogene *pim*-1, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing breast cancer and their medical advisors. Patients recognized as having an enhanced risk of developing breast cancer include, for example, patients having a familial history of breast cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients of advancing age (*i.e.* women older than about 50 or 60 years).

The level of expression of a marker in normal (*i.e.* non-cancerous) human breast tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of breast cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the breast cells which is suspected of being cancerous. For example, when mammogrophy or other medical procedure, reveals the presence of a lump in a patient's breast, the normal level of expression of a marker may be assessed using the non-affected breast tissue, and this normal level of expression may be compared with the level of expression of the same marker in an affected portion (*i.e.* the lump) of the affected breast. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of breast cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of breast cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a parafinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the kits of the invention, or the methods used to assess levels of marker expression in the

sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of breast cancer cells (*e.g.* in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (*e.g.* a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (*e.g.* SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal breast cells, a sample of breast cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether patient is afflicted with breast cancer. In this method, a protein corresponding to a marker of the invention is isolated (*e.g.* by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein or protein fragment. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein or protein fragment, so that the vertebrate exhibits a robust immune response to the protein or protein fragment. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this manner are then screened using standard methods to identify one or more hybridomas which produce an antibody which

specifically binds with the protein or protein fragment. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test compound for inhibiting breast cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of breast cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of breast cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit breast cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous breast cells).

This method thus comprises comparing expression of a marker in a first breast cell sample and maintained in the presence of the test compound and expression of the marker in a second breast cell sample and maintained in the absence of the test compound. A significant alteration in the level of expression of a marker listed in Tables 1-6, may be is an indication that the test compound inhibits breast cancer (*e.g.*, decreases in expression in those markers that are over-expressed in breast cancer cells or more aggressive breast cancer cells and breast cancer cells from patients with poor clinical outcome or increases expression in those markers that are under-expressed in breast cancer cells or in more aggressive breast cancer cells or breast cancer cells from patients with poor clinical outcome. The breast cell samples may, for example, be aliquots of a single sample of normal breast cells obtained from a patient, pooled samples of normal breast cells obtained from a patient, cells of a normal breast cell line, aliquots of a single sample of breast cancer cells obtained from a patient, pooled samples of breast cancer cells obtained from a patient, cells of a breast cancer cell line, or the like. In one embodiment, the samples are breast cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various breast cancers are tested in order to identify the compound which is likely to best inhibit the breast cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting breast cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the efficacy of test compounds, if the therapy induces a significant alteration in the level of expression of a marker listed in Tables 1-6, or blocks induction of a marker listed in Tables 1-6, then the therapy may be efficacious for inhibiting breast cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be efficacious for inhibiting breast cancer in the patient.

As described herein, breast cancer in patients is associated with levels of expression of one or more markers listed in Tables 1-6. While, as discussed above, some of these changes in expression level result from occurrence of the breast cancer, others of these changes induce, maintain, and promote the cancerous state of breast cancer cells. Thus, breast cancer characterized by an alteration in the level of expression of one or more markers listed in Tables 1-6 can be inhibited by hampering or increasing expression of those markers.

Expression of a marker listed in Tables 1-6 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be provided to the breast cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the breast cancer cells of the patient.

Expression of a marker listed within Tables 1-6 can be enhanced in number of ways generally known in the art. For example, a polynucleotide encoding the marker and operably linked with an appropriate promoter/regulator region can be provided to

breast cancer cells of the patient in order to induce enhanced expression of the protein (and mRNA) corresponding to the marker therein. Alternatively, if the protein is capable of crossing the cell membrane, inserting itself in the cell membrane, or is normally a secreted protein, then expression of the protein can be enhanced by providing the protein (*e.g.* directly or by way of the bloodstream or another breast-associated fluid) to breast cancer cells in the patient.

As described above, the cancerous state of human breast cells is correlated with changes in the levels of expression of the markers of the invention. The invention thus includes a method for assessing the human breast cell carcinogenic potential of a test compound. This method comprises maintaining separate aliquots of human breast cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant alteration in the level of expression of a marker listed in Tables 1-6 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) may be an indication that the test compound possesses human breast cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

## I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is

intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in Tables 1-6, can be isolated using standard molecular biology techniques and the sequence information in the database records described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual, 2nd ed.,* Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

A process for identifying a larger fragment or the full-length coding sequence of a marker of the present invention is thus also provided. Any conventional recombinant DNA techniques applicable for isolating polynucleotides may also be employed. One such method involves the 5'-RACE-PCR technique, in which the poly-A mRNA that contains the coding sequence of particular interest is first reverse transcribed with a 3'-primer comprising a sequence disclosed herein. The newly synthesized cDNA strand is then tagged with an anchor primer with a known sequence, which preferably contains a convenient cloning restriction site attached at the 5'end. The tagged cDNA is then

amplified with the 3'-primer (or a nested primer sharing sequence homology to the internal sequences of the coding region) and the 5'-anchor primer. The amplification may be conducted under conditions of various levels of stringency to optimize the amplification specificity. 5'-RACE-PCR can be readily performed using commercial kits (available from, *e.g.*, BRL Life Technologies Inc., Clontech) according to the manufacturer's instructions.

Isolating the complete coding sequence of a gene can also be carried out in a hybridization assay using a suitable probe. The probe preferably comprises at least 10 nucleotides, and more preferably exhibits sequence homology to the polynucleotides of the markers of the present invention. Other high throughput screens for cDNAs, such as those involving gene chip technology, can also be employed in obtaining the complete cDNA sequence.

In addition, databases exist that reduce the complexity of ESTs by assembling contiguous EST sequences into tentative genes. For example, TIGR has assembled human ESTs into a datable called THC for tentative human consensus sequences. The THC database allows for a more definitive assignment compared to ESTs alone. Software programs exist (TIGR assembler and TIGEM EST assembly machine and contig assembly program (see Huang, X., 1996, *Genomes* 33:21-23)) that allow for assembling ESTs into contiguous sequences from any organism.

Alternatively, mRNA from a sample preparation is used to construct cDNA library in the ZAP Express vector following the procedure described in Velculescu *et al.*, 1997, *Science* 270:484. The ZAP Express cDNA synthesis kit (Stratagene) is used accordingly to the manufacturer's protocol. Plates containing 250 to 2000 plaques are hybridized as described in Rupert *et al.*, 1988, *Mol. Cell. Bio.* 8:3104 to oligonucleotide probes with the same conditions previously described for standard probes except that the hybridization temperature is reduced to a room temperature. Washes are performed in 6X standard-saline-citrate 0.1% SDS for 30 minutes at room temperature. The probes are labeled with $^{32}$P-ATP trough use of T4 polynucleotide kinase.

A partial cDNA (3' fragment) can be isolated by 3' directed PCR reaction. This procedure is a modification of the protocol described in Polyak *et al.*, 1997, *Nature* 389:300. Briefly, the procedure uses SAGE tags in PCR reaction such that the resultant PCR product contains the SAGE tag of interest as well as additional cDNA, the length

of which is defined by the position of the tag with respect to the 3' end of the cDNA. The cDNA product derived from such a transcript driven PCR reaction can be used for many applications.

RNA from a source to express the cDNA corresponding to a given tag is first converted to double-stranded cDNA using any standard cDNA protocol. Similar conditions used to generate cDNA for SAGE library construction can be employed except that a modified oligo-dT primer is used to derive the first strand synthesis. For example, the oligonucleotide of composition 5'-**B**-TCC GGC GCG CCG TTT TCC CAG TCA CGA(30)- 3', contains a poly-T stretch at the 3' end for hybridization and priming from poly-A tails, an M13 priming site for use in subsequent PCR steps, a 5' Biotin label (B) for capture to strepavidin-coated magnetic beads, and an AscI restriction endonuclease site for releasing the cDNA from the strepavidin-coated magnetic beads. Theoretically, any sufficiently-sized DNA region capable of hybridizing to a PCR primer can be used as well as any other 8 base pair recognizing endonuclease.

cDNA constructed utilizing this or similar modified oligo-dT primer is then processed exactly as described in U.S. Patent No. 5,695,937 up until adapter ligation where only one adapter is ligated to the cDNA pool. After Adapter ligation, the cDNA is released from the streptavidin-coated magnetic beads and is then used as a template for cDNA amplification.

Various PCR protocols can be employed using PCR priming sites within the 3' modified oligo-dT primer and the SAGE tag. The SAGE tag-derived PCR primer employed can be of varying length dictated by 5' extension of the tag into the adaptor sequence. cDNA products are now available for a variety of applications.

This technique can be further modified by: (1) altering the length and/or content of the modified oligo-dT primer; (2) ligating adaptors other than that previously employed within the SAGE protocol; (3) performing PCR from template retained on the streptavidin-coated magnetic beads; and (4) priming first strand cDNA synthesis with non-oligo-dT based primers.

Gene trapper technology can also be used. The reagents and manufacturer's instructions for this technology are commercially available from Life Technologies, Inc., Gaithsburg, Maryland. Briefly, a complex population of single-stranded phagemid DNA containing directional cDNA inserts is enriched for the target sequence by

hybridization in solution to a biotinylated oligonucleotide probe complementary to the target sequence. The hybrids are captured on streptavidin-coated paramagnetic beads. A magnet retrieves the paramagnetic beads from the solution, leaving nonhybridized single-stranded DNAs behind. Subsequently, the captured single-stranded DNA target is released from the biotinylated oligonucleotide. After release, the cDNA clone is further enriched by using a nonbiotinylated target oligonucleotide to specifically prime conversion of the single-stranded DNA. Following transformation and plating, typically 20% to 100% of the colonies represent the cDNA clone of interest. To identify the desired cDNA clone, the colonies may be screened by colony hybridization using the $^{32}P$-labeled oligonucleotide as described above for solution hybridization, or alternatively by DNA sequencing and alignment of all sequences obtained from numerous clones to determine a consensus sequence.

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The probe/primer typically is used as one or more substantially purified oligonucleotides.

The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis-express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

In addition to the nucleotide sequences described herein, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 1-5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be readily carried out by using hybridization probes to identify the same genetic locus in a

variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.,* Nature Biotechnology, Volume 14, 1996 August:1675-1680; Breslauer, *et al.,* Proc. Natl. Acad. Sci. USA, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.,* Nucleic Acids Research, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.,* BioTechniques, Volume 8, No. 6 1990: 674-678; and Milner, *et al.,* Nature Biotechnology, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-essential" amino acid residue is a residue that can be altered from the wild-type

sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced randomly along all or part of the coding sequence, such as by saturation mutagenesis,

and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*, molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxylmethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-

N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into an breast-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an α-anomeric nucleic acid molecule. An α-anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual α-units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The

antisense nucleic acid molecule can also comprise a 2'-o-methylribonucleotide (Inoue *et al.,* 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.,* 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a

pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity. PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be

synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

II. Isolated Proteins and Antibodies

One aspect of the invention pertains to isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification

techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker, which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides have amino acid sequences encoded by the nucleic acid sequences described herein. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) x100). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the

default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See http://www.ncbi.nlm.nih.gov. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a *k*-tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence

of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY, 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al., supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family. The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al., supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods. Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In

one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983, *Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors, transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional

mutants in the libraries, can be used in combination with the screening assays to identify variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* *89*:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, e.g., an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and $F(ab')_2$ fragments which can be generated

by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than

those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B cell hybridoma technique (see Kozbor *et al.,* 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology,* Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.,* Cabilly et al., U.S. Patent No. 4,816,567; and Boss et al., U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.,* Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521- 3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559); Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having breast cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed

against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent 5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation. Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase, β-galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate,

rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include $^{125}I$, $^{131}I$, $^{35}S$ or $^{3}H$.

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclothosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin, mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"), interleukin-6 ("IL-6"), granulocyte macrophase colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in Monoclonal Antibodies And Cancer Therapy, Reisfeld et al. (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in Controlled Drug Delivery (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in Monoclonal Antibodies '84: Biological And Clinical Applications, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in Monoclonal Antibodies For Cancer Detection And Therapy, Baldwin et al. (eds.), pp. 303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980. Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or humanized antibodies.

In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of

the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments

thereof, the non-human antibodies or fragments thereof, and/or the monoclonal antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C.

After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art.

The method can further comprise producing a monoclonal antibody- producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory

sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and

pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter mediated by a co-expressed viral RNA polymerase (T7 gn1). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 gn1 gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC

(Kaufman *et al.,* 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al., supra.*

In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.,* tissue-specific regulatory elements are used to express the nucleic acid). Tissue-specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.,* 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.,* 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.,* the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.,* 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.,* milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the $\alpha$-fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic

acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.,* 1986, *Trends in Genetics,* Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic (*e.g., E. coli*) or eukaryotic cell (*e.g.,* insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418, hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the invention. Accordingly, the invention further provides methods for producing a *polypeptide corresponding to a marker of the invention using the host cells of the* invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced. In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient

length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

IV. Pharmaceutical Compositions

The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.,* candidate or test compounds or agents (*e.g.,* peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.,* stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the interactions of the marker with one or more of its natural substrates (*e.g.,* peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker

and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the marker.

The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85); spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med. Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor, 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991, *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test

compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.,* marker substrates) can be labeled with $^{125}I$, $^{35}S$, $^{14}C$, or $^{3}H$, either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively, assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo,* interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as “binding partners” or marker “substrate”.

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, *e.g.,* U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al,* 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*.,1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known

transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo,* forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an breast cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding

partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then

combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used. This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is

determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: Current Protocols in Molecular Biology, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the

binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*, Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram, about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following

components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound

into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the breast epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

V. Electronic Apparatus Readable Media and Arrays

Electronic apparatus readable media comprising a breast cancer marker of the present invention is also provided. As used herein, "electronic apparatus readable media" refers to any suitable medium for storing, holding or containing data or information that can be read and accessed directly by an electronic apparatus. Such media can include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as compact disc; electronic storage media such as RAM, ROM, EPROM, EEPROM and the like; general hard disks and hybrids of these categories such as magnetic/optical storage media. The medium is adapted or configured for having recorded thereon a marker of the present invention.

As used herein, the term "electronic apparatus" is intended to include any suitable computing or processing apparatus or other device configured or adapted for storing data or information. Examples of electronic apparatus suitable for use with the present invention include stand-alone computing apparatus; networks, including a local area network (LAN), a wide area network (WAN) Internet, Intranet, and Extranet; electronic appliances such as a personal digital assistants (PDAs), cellular phone, pager and the like; and local and distributed processing systems.

As used herein, "recorded" refers to a process for storing or encoding information on the electronic apparatus readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on known media to generate manufactures comprising the markers of the present invention.

A variety of software programs and formats can be used to store the marker information of the present invention on the electronic apparatus readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like, as well as in other forms. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be employed in order to obtain or create a medium having recorded thereon the markers of the present invention.

By providing the markers of the invention in readable form, one can routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the present invention in readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which match a particular target sequence or target motif.

The present invention therefore provides a medium for holding instructions for performing a method for determining whether a subject has breast cancer or a pre-disposition to breast cancer, wherein the method comprises the steps of determining the presence or absence of a breast cancer marker and based on the presence or absence of the breast cancer marker, determining whether the subject has breast cancer or a pre-disposition to breast cancer and/or recommending a particular treatment for the breast cancer or pre- breast cancer condition.

The present invention further provides in an electronic system and/or in a network, a method for determining whether a subject has breast cancer or a pre-disposition to breast cancer associated with a breast cancer marker wherein the method comprises the steps of determining the presence or absence of the breast cancer marker, and based on the presence or absence of the breast cancer marker, determining whether

the subject has breast cancer or a pre-disposition to breast cancer, and/or recommending a particular treatment for the breast cancer or pre- breast cancer condition. The method may further comprise the step of receiving phenotypic information associated with the subject and/or acquiring from a network phenotypic information associated with the subject.

The present invention also provides in a network, a method for determining whether a subject has breast cancer or a pre-disposition to breast cancer associated with a breast cancer marker, said method comprising the steps of receiving information associated with the breast cancer marker receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the breast cancer marker and/or breast cancer, and based on one or more of the phenotypic information, the breast cancer marker, and the acquired information, determining whether the subject has breast cancer or a pre-disposition to breast cancer. The method may further comprise the step of recommending a particular treatment for the breast cancer or pre- breast cancer condition.

The present invention also provides a business method for determining whether a subject has breast cancer or a pre-disposition to breast cancer, said method comprising the steps of receiving information associated with the breast cancer marker, receiving phenotypic information associated with the subject, acquiring information from the network corresponding to the breast cancer marker and/or breast cancer, and based on one or more of the phenotypic information, the breast cancer marker, and the acquired information, determining whether the subject has breast cancer or a pre-disposition to breast cancer. The method may further comprise the step of recommending a particular treatment for the breast cancer or pre- breast cancer condition.

The invention also includes an array comprising a breast cancer marker of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological contexts, as disclosed herein, for example development of breast cancer, progression of breast cancer, and processes, such a cellular transformation associated with breast cancer.

The array is also useful for ascertaining the effect of the expression of a gene on the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

VI. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails

are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing breast cancer. Such assays can be used for prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit breast cancer or to treat or prevent any other disorder {*i.e.* in order to understand any breast carcinogenic effects that such treatment may have} ) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the following sections.

A. <u>Diagnostic Assays</u>

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves obtaining a biological sample (*e.g.* a breast-associated body fluid) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro* techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (*e.g.*, by washing) under conditions such that any complexes formed will remain immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA) (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues,

cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from breast cells (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA,* 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989,

*Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the breast cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-breast cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level

for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

Preferably, the samples used in the baseline determination will be from breast cancer or from non-breast cancer cells of breast tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is breast specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from breast cells provides a means for grading the severity of the breast cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or $F(ab')_2$) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

Proteins from breast cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can

readily adapt known protein/antibody detection methods for use in determining whether breast cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody or proteins on a solid support. Suitable solid phase supports or carriers include any support capable of binding an antigen or an antibody. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from breast cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (*e.g.* an breast-associated body fluid). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing breast cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (*e.g.*, an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package, along with instructions for interpreting the results of the assays performed using the kit.

B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically or therapeutically) breast cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens. Accordingly, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor altering the way drugs act on the body are referred to as "altered drug action." Genetic

conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

This invention also provides a process for preparing a database comprising at least one of the markers set forth in Tables 1-6. For example, the polynucleotide sequences are stored in a digital storage medium such that a data processing system for standardized representation of the genes that identify a breast cancer cell is compiled. The data processing system is useful to analyze gene expression between two cells by first selecting a cell suspected of being of a neoplastic phenotype or genotype and then isolating polynucleotides from the cell. The isolated polynucleotides are sequenced. The sequences from the sample are compared with the sequence(s) present in the database using homology search techniques. Greater than 90%, more preferably greater than 95% and more preferably, greater than or equal to 97% sequence identity between the test sequence and the polynucleotides of the present invention is a positive indication that the polynucleotide has been isolated from a breast cancer cell as defined above.

In an alternative embodiment, the polynucleotides of this invention are sequenced and the information regarding sequence and in some embodiments, relative expression, is stored in any functionally relevant program, e.g., in Compare Report using the SAGE software (available though Dr. Ken Kinzler at John Hopkins University). The Compare Report provides a tabulation of the polynucleotide sequences and their abundance for the samples normalized to a defined number of polynucleotides per library (say 25,000). This is then imported into MS-ACCESS either directly or via copying the data into an Excel spreadsheet first and then from there into MS-ACCESS for additional manipulations. Other programs such as SYBASE or Oracle that permit the comparison of polynucleotide numbers could be used as alternatives to MS-ACCESS. Enhancements to the software can be designed to incorporate these additional functions. These functions consist in standard Boolean, algebraic, and text search operations, applied in various combinations to reduce a large input set of polynucleotides to a manageable subset of a polynucleotide of specifically defined interest.

One skilled in the art may create groups containing one or more project(s) by combining the counts of specific polynucleotides within a group (e.g., GroupNormal = Normal1 + Normal2, GroupTumor1 + TumorCellLine). Additional characteristic values are also calculated for each tag in the group (e.g., average count, minimum count, maximum count). One skilled in the art may calculate individual tag count ratios between groups, for example the ratio of the average GroupNormal count to the average

GroupTumor count for each polynucleotide. A statistical measure of the significance of observed differences in tag counts between groups may be calculated.

C. Monitoring Clinical Trials

Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening, but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for breast cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.

D. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, breast cancer. As used herein, a "surrogate marker" is an objective biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the

disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As used herein, a "pharmacodynamic marker" is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker.

Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am, J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

## VII. Experimental Protocol

### A. Subtracted Libraries and Transcript Profiling

Subtracted libraries are generated using a PCR based method that allows the isolation of clones expressed at higher levels in one population of mRNA (tester) compared to another population (driver). Both tester and driver mRNA populations are converted into cDNA by reverse transcription, and then PCR amplified using the SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using the PCR-Select cDNA subtraction kit from Clontech. This technique results in both subtraction and normalization, which is an equalization of copy number of low-

abundance and high-abundance sequences. After generation of the subtractive libraries, a group of 96 or more clones from each library is tested to confirm differential expression by reverse Southern hybridization.

B. Proteomics

Proteins that are secreted by normal and transformed cells in culture are analyzed to identify those proteins that are likely to be secreted by cancerous cells into body fluids. Supernatants are isolated and MWT-CO filters are used to simplify the mixture of proteins. The proteins are then digested with trypsin. The tryptic peptides are loaded onto a microcapillary HPLC column where they are separated, and eluted directly into an ion trap mass spectrometer, through a custom-made electrospray ionization source. Throughout the gradient, sequence data is acquired through fragmentation of the four most intense ions (peptides) that elute off the column, while dynamically excluding those that have already been fragmented. In this way, approximately 2000 scans worth of sequence data are obtained, corresponding to approximately 50 to 200 different proteins in the sample. These data are searched against databases using correlation analysis tools, such as MS-Tag, to identify the proteins in the supernatants.

In addition, protein profiling experiments are undertaken to assess whether the proteins associated with the expression of individual markers of the invention are secreted. Transcriptional profiling experiments are performed on fractions of RNA that are obtained from either (a) endoplasmic reticulum-associated (ER-associated) ribosomes, or (b) free ribosomes. Eukaryotic RNA which is isolated from ER-associated ribosomes tends to encode secreted and membrane bound proteins rather than intracellular proteins. Accordingly, markers of the invention which exhibit significantly enhanced expression in fractions of RNA from ER-associated ribosomes (in comparison with RNA from free ribosomes) are predicted to be associated with secreted proteins.

VIII. Summary Of The Data Provided In The Tables

Table 1 shows 4068 novel nucleotide sequences identified through subtracted library experiments. The sequences of Table 1 were reinterpreted and those sequences are set forth in Tables 3 and 5. These sequences were determined to be novel through various BLAST searches of the available databases.

The library source for SEQ ID NOS: 1-675 was breast cancer cell cultures (ascites and pleural fluid cultures) versus normal (*i.e.*, non-cancerous) human epithelial mammary cell lines (HMEC). SEQ ID NOS: 1-470 are preferred and SEQ ID NOS: 1-315 are most preferred.

The library source for SEQ ID NOS: 676-1644 was cancer tissue samples (clinical invasive lobular carcinomas (ILC)) versus normal breast tissue samples. SEQ ID NOS: 676-890 and 1056-1363 are preferred and SEQ ID NOS: 676-792 and 1056-1254 are most preferred.

The library source for SEQ ID NOS: 1645-2941 was cancer tissue samples (clinical invasive ductal carcinomas (IDC)) versus normal breast tissue samples. SEQ ID NOS: 1645-2454 are preferred and SEQ ID NOS: 1645-2124 are most preferred.

The library source for SEQ ID NOS: 2942-4068 was cancer tissue samples (clinical ductal carcinomas in situ (DCIS)) versus normal breast tissue samples. SEQ ID NOS: 2942-3626 are preferred and SEQ ID NOS: 2942-3351 are most preferred.

Table 2 shows 4843 novel nucleotide sequences identified through subtracted library experiments. The sequences of Table 2 were reinterpreted and those sequences are set forth in Tables 4 and 5. These sequences were determined to be novel through various BLAST searches of the available databases.

The tester source for SEQ ID NOS: 1-64, 1960-1976 and 3038-3080 was aggressive breast tumor cell lines and the driver source was indolent breast tumor cell lines (detects markers upregulated in more aggressive tumors).

The tester source for SEQ ID NOS: 65-72, 1879, 1977-2004 and 3081-3127 was indolent breast tumor cell lines and the driver source was aggressive breast tumor cell lines (detects markers upregulated in more indolent tumors).

The tester source for SEQ ID NOS: 73-629, 1880-1894, 2005-2296 and 3128-3471 was poor clinical outcome breast tumors and the driver source was good clinical outcome breast tumors (detects markers upregulated in more aggressive tumors). "Poor clinical outcome" is defined as the patient suffering disease recurrence following surgery within a period of less than five years. "Good clinical outcome" is defined as the patient remaining disease free for at least five years or more following surgery.

The tester source for SEQ ID NOS: 630-862, 1895-1900, 2297-2385 and 3472-3602 was good clinical outcome breast tumors and the driver source was poor clinical outcome breast tumors (detects markers upregulated in more indolent tumors).

The tester source for SEQ ID NOS: 863-1262, 1901-1910, 2386-2567 and 3602-3988 was breast tumor lymph node metastasis and the driver source was indolent (colloid and tubular) breast tumor samples (detects markers upregulated in more aggressive tumors).

The tester source for SEQ ID NOS: 1263-1392, 1911-1916, 2568-2735 and 3989-4319 was indolent (colloid and tubular) breast tumor samples and the driver source was breast tumor lymph node metastasis (detects markers upregulated in more indolent tumors).

The tester source for SEQ ID NOS: 1393-1638, 1917-1943, 2736-2940 and 4320-4604 was T1N1 breast tumors (tumors 2.0 cm or less in greatest dimension with regional lymph node metastasis) and the driver source was T1N0 breast tumors (tumors 2.0 cm or less in greatest dimension with no regional lymph node metastasis), good clinical outcome (detects markers upregulated in more aggressive tumors.

The tester source for SEQ ID NOS: 1639-1878, 1944-1959, 2941-3037 and 4605-4843 was T1N0 breast tumors with good clinical outcome and the driver source was T1N1 breast tumors (detects markers upregulated in more indolent tumors).

Table 6 shows novel nucleotide sequences shown to be associated with breast cancer.

The contents of all references, patents, published patent applications, and database records cited throughout this application are hereby incorporated by reference.

Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

Claims

1. An isolated nucleic acid molecule selected from the group consisting of:

a) a nucleic acid molecule comprising a nucleotide sequence which is at least 90% homologous to a nucleotide sequence of Tables 1-6, or a complement thereof;

b) a nucleic acid molecule comprising a fragment of a nucleic acid comprising a nucleotide sequence of Tables 1-6, or a complement thereof; and

c) a nucleic acid molecule comprising a nucleotide sequence of Tables 1-6, or a complement thereof.

2. A vector which contains a nucleic acid molecule of claim 1.

3. A host cell which contains a nucleic acid molecule of claim 1.

4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 90% homologous to a nucleic acid comprising a nucleotide sequence of Tables 1-6.

5. An antibody which selectively binds to a polypeptide of claim 4.

6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.

7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:

a) contacting the sample with a compound which selectively binds to the *polypeptide*; and

b) determining whether the compound binds to the polypeptide in the sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.

9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:

a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and

b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

11. The method of claim 9, wherein the sample is isolated from breast tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with breast cancer, the method comprising comparing:

a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and

b) the normal level of expression of the marker in a control non-breast cancer sample,

wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer.

15. The method of claim 14, wherein the marker corresponds to a secreted protein.

16. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

17. The method of claim 14, wherein the sample comprises cells obtained from the patient.

18. The method of claim 17, wherein the sample is a breast tissue.

19. The method of claim 17, wherein the cells are in a fluid selected from the group consisting of blood fluid, lymph, ascitic fluid, cystic fluid, urine, a breast exudate and a nipple aspirate.

20. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.

21. The method of claim 15, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.

22. The method of claim 21, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

23. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

24. The method of claim 23, wherein the transcribed polynucleotide is an mRNA.

25. The method of claim 23, wherein the transcribed polynucleotide is a cDNA.

26. The method of claim 23, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

27. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

28. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with breast cancer by a factor of at least about 2.

29. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with breast cancer by a factor of at least about 5.

30. The method of claim 14, comprising comparing:

a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-6, and

b) the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with breast cancer,

wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with breast cancer.

31. The method of claim 30, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with breast cancer.

32. The method of claim 30, wherein the plurality comprises at least three of the markers.

33. The method of claim 30, wherein the plurality comprises at least five of the markers.

34. A method for monitoring the progression of breast cancer in a patient, the method comprising:

a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6;

b) repeating step a) at a subsequent point in time; and

c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of breast cancer in the patient.

35. The method of claim 34, wherein the marker corresponds to a secreted protein.

36. The method of claim 34, wherein marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

37. The method of claim 34, wherein the sample comprises cells obtained from the patient.

38. The method of claim 34, wherein the patient sample is a breast tissue.

39. The method of claim 34, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove a tumor.

40. A method of assessing the efficacy of a test compound for inhibiting breast cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and

b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting breast cancer in the patient.

41. The method of claim 40, wherein the first and second samples are portions of a single sample obtained from the patient.

42. The method of claim 40, wherein the first and second samples are portions of pooled samples obtained from the patient.

43. A method of assessing the efficacy of a therapy for inhibiting breast cancer in a patient, the method comprising comparing:

a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6, and

b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,

wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting breast cancer in the patient.

44. A method of selecting a composition for inhibiting breast cancer in a patient, the method comprising:

a) obtaining a sample comprising cancer cells from the patient;

b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6; and

d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

45. A method of inhibiting breast cancer in a patient, the method comprising:

a) obtaining a sample comprising cancer cells from the patient;

b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;

c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6; and

d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

46. A kit for assessing whether a patient is afflicted with breast cancer, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-6.

47. A kit for assessing the presence of breast cancer cells, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-6.

48. A kit for assessing the suitability of each of a plurality of compounds for inhibiting breast cancer in a patient, the kit comprising:

a) the plurality of compounds; and

b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-6.

49. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast cancer, the method comprising:

isolating a protein or protein fragment corresponding to a marker selected from the group consisting of the markers listed in Tables 1-6;

immunizing a mammal using the isolated protein or protein fragment;

isolating splenocytes from the immunized mammal;

fusing the isolated splenocytes with an immortalized cell line to form hybridomas; and

screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.

50. An antibody produced by a hybridoma made by the method of claim 49.

51. A kit for assessing the presence of human breast cancer cells, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker selected from the group consisting of the markers listed in Tables 1-6.

52. A method of assessing the breast cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of breast cells in the presence and absence of the test compound; and

b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6,

wherein a significantly enhanced level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses human breast cell carcinogenic potential.

53. A kit for assessing the breast cell carcinogenic potential of a test compound, the kit comprising breast cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-6.

54. A method of treating a patient afflicted with breast cancer, the method comprising providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-6.

55. A method of inhibiting breast cancer in a patient at risk for developing breast cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-6.

Table 1

Sequence 1
CCGCGGTGGCGGCCGCCCGGGCAGGTACACTATCCCTCATGATGACTCCTTAAGTGGNTC
ATCGTCTGCATCTTCGTGTGAACCAGTGAGTGATTTTCCAGCATCTTTCCGAAAATCTAC
CTACTGGATGAAGATGAGAAGAATCAAGCCAGCTGCTACTTCTNATGTCGAAGGGTCAGG
TGGAGTATCANCCAAGGGGAAAAGGAAACCCAGGCAGGAAGAAGATGAAGACTATNGAGA
ATTTCCTNAGAANAAGCATAAGCTTTATGGGAGGAAGCAACGGCCTAAAACTCAGCCCAA
TCCCAAATCCCAGGCCCGTCGTATTCGGAAGGAACCACCAGTTTATGCAGCAGGCAGTTT
GGAGGAGCAATGGTACCTN
Sequence 2
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCAAACTCCAGATCTAA
ATATGTTTACTTTTCATGTGGATTCGGAACATCCCAATGTAGTGCTAAATTCATCCTATG
TTTGTGTCGAATGCAATTTTCTTACCAAAAGGTATGATGCACTTTCTGAGCATAATCTGA
AATATCACCCAGGAGAAGAGAATTTTAAGTTGACTATGGTGAAACGTAATAACCAGACAA
TCTTTGAACAAACAATAAATGATCTGACTTTTGATGGTAGTTTTGTTAAAGAGGAGAATG
CAGAGCAAGCAGAATCTACAGAAGTTTCTTCTTCGGGAATATCTATCAGTAAAACTCCTA
TCATGAAAATGATGAAAAAATAAAGTGGAAAATAAACGGATTGCAGTTCATCATAACTCAG
TTGGGGACGTTCCTGAAGAGAAAGAGAATGAAATCAAACCAGACCGTGAAGAAATTGTAG
AAAATCCAAGTTCTTCAGCTTCTGAATCTAATACAAGTACCTGCCC
Sequence 3
AGGTACCTGCCCATCCACTGCCTTTTCCATGTATCCTGGAACTGAGCATAGACCTCTTCC
CAGGCAGAGCTGACAGCAAGTAAAGGAGATCATAATCAGGGGACCAAACAACTTTGTCTA
AAGTGTGAATGTCACCTAAGGAGAAGCTGTGAGATCAGAAGGGTGGGGCAGAGGAGCAGA
CACCATGAGGGAGAGTCCTTGGGGGTACCTGCCCG
Sequence 4
CCGGGCAGGTGCTGATNTTNCNCGGTNAAGCCCNCGGNNGGACCCATNCCTGCGGNCACC
TTGACCGAANCCTGTGAGANCTCCTGAAATANAGGANCCAGCNNTTNCTCTGNTANACAN
ANACNCTGGNGCCNTTGNNGCTGGNCTGNNTGAANGCNCACNTGAACTNCGGATTCACAG
NAANTNNTNGGNTNATCNACNGTGGANGAAGCCANANNCCANNNTATNAGNNTNNTCAAN
CNNNTTNANGNAGATGTATGTATGGAGAGAAACTGAGGCCTCCNNGCCAACAGCCAGCAC
TAACTTGGCAAGCATGTTTGAGAGCCACCTGGNGAAGTGGAGCCTTCAGCCCCANTTTAA
AGCCTTCANATGAGACTGCAAGTTCCTGGGCCACCATTCTGGGACTGCAACTTTCACAAA
GGAGCCTCCTAAANCCAAGAAGNCCCATGCCAGATGGGAATTCTTTGGGCCCCCCAAGAA
AATTTGTGCCCACTTACATTTTTTGGGGAAAATTTTATTNNTGCAAGCNCATTAAGATTT
ACCAATTACCACTTCACTTATTTTCNTTTTTTTTTNTGGAATGCCCATACTTAAAAAAAA
AAAAAAAAAAA
Sequence 5
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAAAAGGATGAAAAAGGTGGTGT
CATGTTTTGGGGAGAATCTTACTTCTCAAATGGAAATTGCACTTTTTGCTGAATCCTTTG
CATTTTTTTGGTAGTAAGCAGTTCATTGAGTATCAGGTCCTCAAAGGAATGAGTTGGCCC
GGCTAGGGTGGGCCCTNTTGACCTAACTTCAGAGGGGGCCTTGGCTCAGTAGGTGTGAAT
CAGGGAAGCCACATTGTCCTCAGGGTGCTGTATGAAGCTGGGTGTGGGCGGATTCCTCCC
ACACCTTCACACTGGCCTGCCTCCAACTCATACAAATCTCGGAGCGGTCGGTACCT
Sequence 6
CNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCACTGGAGCACTTGG
AAAACAGAAGAAATCAAAGGGCAGTCAGGACTCTCCCAGCAGGCAGGGACCAGGTCAGAG
TCAGGATGAAGACAAAGCACCCTGAGCAAGAAGCAATGGAAGAGATGCTTGTGACCCGAG
CTGATGGGGAAGGTTGAGGGCAACGCANAGACCCCACTGCCGACTTGCCAAGAAAACGTG
CAGGAAATGAGGGAAGGCTCCATTTTCCTGAGAAAAGGGATGGAGGAACATAAGCAGCAT
CAAGCTCCAGCTACTGGCTCTTTGAGAATGTAGTCGGGACTTGCCCCAGTCACCCTTGCC
CTGAGAACTCA
Sequence 7
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAAAGGATGAAAAGGTGGTGTC
ATGTTTTGGGGAGAATCTTACTTCTCAAATGGAAATTGCACTTTTNGCTGAATCCTTTGC
ATTTTTTTGGTAGTAAGCAGTTCATTGAGTATCAGGTCCTCAAAGGAATGAGTTGGCCCG
GCTAGGGTGGGCCCTCTTGACCTAACTTCAGAGGGGGCCTTGGCTCAGTAGGTGTGAATC
AGGGAAGCCACATTGTCCTCAGGGTGCTGTATGAAGCTGGGTGTGGGCGGATTCCTCCA

Table 1

Sequence 8
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTATTTGTCACTTAAAGGT
TCTTTCTGTAAACTGCTTCAGATTCTTTTACTATTCAATTTTTAATTNTTAATATCTGTA
AAGAACGTTAATATTCCTCTTTATAATCAATCTTTCCCAGTTAGCCTTAAAAATGTATTC
CCTACTTTTGCTTCAGGAGATCATTATTTGCAAATGCAAAGATTTTTTACTTAGACTTTT
GAAATCACTCTTAGTAACTTTAACATTGTTTTTAGGTATGAAATTGAAGGCTGTGAAGTG
ATTTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTTCTTCGATGCAGGAGCAGCTTG
AATTCTTTGACTTCAAAGCTCATTGCTGGAAAAATCAAGAGGGCTTAAATTTGCCCCTTA
AAAGGAACCNGGATTTTCCCACCTGGANGGAAGGG
Sequence 9
GATGCAGAGTCGGAAGGGAGCAGACTGCCCTGCTGGTGAGGGAGGTGATTACCCAGGGCG
AGTGTGCAGCCACTCAATGGCAGGGATTCTTTTCTATTTCCAGCCGGGGTGGAAGAGAAC
CCCTTTGTCCCTCAGACAAGTGGCCCCAGTTGAGCCCAGCGCTGAAACCGCCAGTCATCC
GCCTCTGCAGGAAGTGGCCGCCCTGACACATAGCCCAGGGCTGGATTCTTGTGGAAGAGT
CAGTGGAGTGAGATGGTGATTGAAAAAGGAAGAAGGCCCCTCCTCAGATCCAGGGCTTTA
ACCCCAGCGCACTCCCCGATGTCTCACCCTTTGAGCTCCATGACTGCATTCCCACTTCAA
GGTGCAGGCACGGACGCTAACGGCCCANTGACTTGGCCAAGGCCACCCAGTAATGCAGCA
GCTGAATTGGGGGCATTTAC
Sequence 10
CCGCGGTGGCGGCCGAGGTACATTTTTGAAAAGCACAATAACTTGTATTAATTGCACTTA
ACACAATGAACCTTTAGTTTCCAACCAGTTTTCATTCTCTGCAGACCCGGGCTTTCTTTT
TATAAAAACTGCTTTCAAAAGGCATAGAGACACCACACATGGTCCACAGTAAATTCAAAT
AGAGAGGTGCAATAGTTGCAGTGGTAAACACACAAAAAAATACATTTTTTTGGACTAAAA
ATCTGGTCACGGATAAAAGCATGTGCCTTTTCATTCTTCTCTGGGATGTTACAACAGCAA
CACGCTCTAAAACAATTAAGTTACATGCATAATGCTAAAAGAATGTGAGCAATCCTNTAA
CCAGCTTTTAAGCCCATCTGCTTGATTTCNTTTTTTT
Sequence 11
CCGGGCAAGGTACACACCAGGGATTGGGGGCCCTGCAGCTTCTACGCCCAGGGACATTTG
CTTCGGGGACTGGAGTCCTTGCTGTGGCGTGAGGCTGTGTCTGGCGTCTGGGAGGAGGAC
TGTGTGGGGTCTGGGTTCCCCAGCCCTAATGACCCAGCTGGTTGAAGGCAGCAGATGAAA
GGAGACAAATGACCACGCAAACCCTGGGTGGCCTCATGAACAGGTGGCGGACAAGGGTGA
TCCCTGTTGAGCAAGGTCCTGCACTGCGGTGGGTCCAAGGACTAAGCTGCCAGC
Sequence 12
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAACTTGGGA
TCAAATGGAATCTTGATTCACTAACCAATTTAAGATCTGACTTCTAATTTTAGGAACTTT
GGGTTATGAACGCTTCCATTTTATACCTGTGTCTAGTTAGTTTCTGCCTATCTATCCAAG
AAGCTTTTATCAAGGGTCCACCATGTGCCAGCCACTGAAGTAGATATAAATACAAGGATG
TGTAAGGTATGGATGATGGTATACGAACTGTCATCTTACTGGATTTGTCCGCTCTGTTAA
AGATACGGTTCCGAAAACTTTTTAAAGCCCTAGAGAGGGCTTTAAG
Sequence 13
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAACTTGGGATC
AAATGGAATCTTGATTCACTAACCAATTTAAGATCTGACTTCTAATTTTAGGAACTTTGG
GTTATGAACGCTTCCATTTTATACCTGTGTCTAGTTAGTTTCTGCCTATCTATCCAAGAA
GCTTTTATCAAGGGTCCACCATGTGCCAGCCACTGAAGTAGATATAAATACAAGGATGTG
TAAGGTATGGATGATGGTATACGAACTGTCATCTTACTGGATTTGTCCGCTCTGTTAAAG
ATACCGGTTCCGAAAACTTTTTAAAGCCCTAGAGAGGGCTTTAAGG
Sequence 14
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCATATGCCTGCTG
AAGTGCTCTGACTTTAGGATGAGAAACTCTAACATAGGCCGGAAGACAAATAAACCATAA
ACTGTAACAATGACTAAACAGACACTTGGCCCACTGTGGTGGATTTGTATAACATCTCTT
CGCCAATTTATGAGCTGTTTTTATTTCCTGTTTAGTTCTCTTAGCCATGAGAGGTGGACT
CTTTGACCTGCCCG
Sequence 15
CGGCCGCCCGGGCNNGTACCAAAAGGNTNAANACCCANAGGGNAAACCCACCGCGGGNNG
AGCAACAAAGNAGGCACACANGGGGAAAGACCCCANANACGGGGGAAANGCGGGAAAGC
CCCCCGAGGAAGCACACACCNCANACAACACCAAAAAANACACACGGGCGAGAAGNCGAN

Table 1

GCCCAGAANAGNGAGGGGAAAAAGANGCAGACGGAGCCCAACCCCCANGGAACAAAAAGA
GGACCCANACCGGGGAAAGACCNAACCAGNNCAAAGAGGGGGGGAAAAGGGNCAGGCAGC
CNAGCAACCANAACCGCGNGCAGAGAAAGCACACCNGGAGACAAGCCCNACNAANGGNGA
AGAAAGGGGGAAAANGCCGCCAAGGAGAAAGCCAGGGCNGAAACNCACGAGAAAAACCAC
ACCAGGGGGNNAAGACCNANGCNANACAACGAAAACCAAAGGGAAAGGGNNCGACCCAAA
NGGGCCGGCCCGGGNAAACCANCAAGGGAAGGCCACCCCNAGGGNGAAAACCNAAAAAAG
NGGAGGGAAAGGGGGGAAACCC
Sequence 16
AGGTGNGAATCAACGCAGGTCAAAATGAAATTTACACTGAAGGCTTCCAAACCAAAGGGA
AGGACAGGATGTGTCATCAAATATGTTTNGTCACCTTGTATTATACAAAANGCTATTTTC
TAANGAGTCAGAGAAANTNTGTGAANCTTATTGTGCGGCCCCCTTGTAATNAAATGTTAA
CTCCCTTGTATTTAATTTTCAACACTACATTAAGAATTAAGTGGTTTNAGTTTGNGGACA
TAAGCANCACTTATTAATATCAAGGTGTTTAAGAACTCAGGAG
Sequence 17
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTNTGCTTCCAGTTTATATTTCACA
TCCTGTTCAGCTTNATTAATATGCCATGGGTCACAAAACTCAGTGCAATAAAATGTGTAT
GAAAGAAACACCCTTCAGAAAAGATGAGACTCTTTCAAGTGTAAATACTCTAAACTAATA
TAAGTCAAAATATATTTTTTGTGCCCAGNGATTTTTAAAAATTACCCAGTCAACCATTTC
CTCAATAATTCAAATACTCAAGTGTCCATTTATATTTTTGGAATAAGCGAGAGTGATCGT
AGTACCTGCCCG
Sequence 18
CNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCACGAG
GGGGGTGCAAGATCCTGATTTTTNAGGAGTTCAAGCGACAATGGCAGNCCAATACGGCAG
TATGAGCTTNAACCCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAG
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AAACAGCATCCTTGGCCGGAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAA
GAAGTGTGAGAAACGCAGCAGNTNATGGAAGGAAACAGAACTTGT
Sequence 19
CCGCGGTGGCGGCCGAGGTACCTCACGCGCATAAATTTGCTGCTCCTATTTTTTTTTCTG
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AAACTTTATTTATTAAGAATGTCATCTTTTTTAATTTATATTTACACAATTGTTCATCTA
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ATCCTGTTCTCATGGATTTGTTTTCCCATACTGTTTTCTCTGATCTCAATTACAGGTTGG
ATCTCACAAATAATAATGTCAGAGACAGAAATATTTTGCCACTGTTGATTACTATACTTT
AAAGTTCTATATTATGAAAATATATAATAGCTTGTACCTGCCCG
Sequence 20
CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGTCTTTCC
GTGTGTGTATGCTGGTGAACAGTCAGATTTATTTATATTTTTTTGCAAGCATTGAATAAT
CTAAGTTTTAAATATTATTTATCCCCATCCGTTCGTATTTATATTAAAGAATTCTGTACC
T
Sequence 21
CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGA
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GATCCCATCTATGATATATGCAGAAATCACAGCCACATTTGAATGGTTCAATCTTGATTC
ATACTGAACTCCCTTAAGCCCAGCAGTTTCTCATTCTTAAAAGGTAGGTTATTAGAGCCC
CAAAGCAATTTTCATAACAAATCTACCTTTGTATATTTAAGAATATGCATTAAGGCTAGG
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GTCAGATTGAGACCATNCTGGCCAACACGGTGAAACCCCATCTCTACTAAAAATACAAAA
ATTTGCCCGGGGCGGTGGCTCACGCCTATAATCCCAGCACTTTTGGGAGG
Sequence 22
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TGGTTCAGCAGCTTGCTGGTGGTTTACTAGGCAGACATGAGCCAGAAACAAAATCAGCAA
CCCTGGAGTGGTCATTTAGGATCAGTTTTGTCTCCTTTTACAAAGCAATGAGTGCTTTAT
AAAAGCATTTCTCCTCAGGAAACTGGCTCCTCAAAAGTCGTTCTCCAAGCCAGCAGCTCA
CAGTAGATGGATGAGTTTACCTGTCCTAATAATACTTTTTATTATAATACTTTTATTACT
GATACTTTATTATAATACTTTTATTACTGATACTGATACCTAGTAATACTTTTATTAGAT

Table 1

GAAATGTATCCCCAGGCCTCCACATCAGCCTTCTGGGGCCCTGACAGGTGTTTACCAGTA
GCTNCACAACCTTCACAGGCTTGTTCTCTCATCCCTGTGAGGGAAGGTTCAAAAGGCAAC
T
Sequence 23
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AATTTGAAAGGAAAACAATTTTTCACTAAAAATATCCTTATTACATGAAAGCCATAATTT
AAAAGACAGAGAAAAAAGCTTTTTAATTAACAAATAAACAGCATCTCTCAGAGACACTTG
GGAATGTTTGTTTTTAATCAGTGGGTCCTAAAAATCACTGCTTCCACCTGCAAACGAACA
CGAATCCACTGTGGATGGCGTCCTCTGACCCACCCTGAAGGGTTCTGTTTCTCTCCACAC
ACTTCCTTTTCTGCAACTTTCAGCAAAGCAGGTTTGGAAGAAAGAGGATTACAAAGAACT
ACGACTGGCTCCCTAGTGAATAACTTAACACGGTAAAACCCGGTTTTCCATTTACATT
Sequence 24
CCGCGGTGGCGGCCGAGGTACCTACTATGTGTCACGCCATGGGGGATACAAAGATCTATA
AGGCACAAGACCCTCAGTCTTGTAGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGG
AAAGGACAATGGTGGAAAATGCACTCAGGTCTTCCTAATGCACAGAGTATGCTCAGGCTG
TGACATCAGGAAGAAAACAGATATTTACCTTAACACGGACTTGGAGGACCTTCAAAAAAC
AGTGATGGGAGGAAATCCAGTTTTAAAAGTCTTGATTTAAAAAAAAGAAAACACTTTCTG
TGGATAAAGATAGGCTGCAGGAAATGTAACCTATGAAATTTTCTCAAATTAGCTTTCAAA
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TACTATTTAGTATCTGAGTGAAGTACCTGCCCG
Sequence 25
CGAATTGTTGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATAAAGTTCACCCACCC
TGCACTTTNGCCCTTAGATCAATCCTAAGTAGCCATTGCCAGTAGGCCAAGTTTAATCAG
AGGACAGTGCCTACCAGTAAATACTGAATAGTTACAATAGTTATGTCCATCCAACCAGTA
GCAGATGAACAGCTAATACATCATGATGCTATGCTCTCCTAACAGGGTCCCCTCAGATCC
TCAGTGAGCACATAAAGAAAGGGAGGTCATATCCCTTACATCTCTACCAGGTATTAACAC
CTAACTACTCTCTAGCCAGAGGCAATTCCCTTTATTTCCTTACTCTCGTCGTCTTCTCTT
TAGCCCAATCTCCTGACAATAGTTAAAACAAAAAGACCCCCAAAATATCTCTTGCTAAAA
CAG
Sequence 26
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AAAGCTCTGAAGACCCAAAGATGACATTACTAATGATGTGATTTCAGGAGCCACAGAAGA
ACCTTACCAGCTTCCCTCAAATCAGTCCTTATCCTCTTTCTATCTTCACTCCCATCATCA
TCTATTTTCACACTATCCAGCTAAGCAAAGATTCCTGGAGGCTGACTTGTATCTTCAGAC
TCACAGAGTGAATTCAGCTNTTCTGAATCAAGACCCACCCAGTN
Sequence 27
ACGCTACTATAGGGCGAATTGNNGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTT
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CTTGGCCTCAAACAATCCTNCTGCCTCGGCCTGCCAAAGTGGTAGGATTATAGTCATGAG
CCACTGCGTCCAGCTAGAAATAGCAATTTTTCTAACACATATATTTCATTGGTTTATGTA
TGAATTTAGAATATCAAAGTGGCATGAACAGGTTCAAGATCCAACAAAAGGGAATCTTGA
TTCTGCCTCACCTAATAAAAGCAGAAGTGCGTGGGCNCNCTAAAA
Sequence 28
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CCCCTTTCTGGGTGGATTCAGGGGTAGTCAGATATTCCAGGTTAAACTGAACCTGATGCA
TCAATCTCCTTCTTGGAGGTGTCTCAGTGTGCCAGACACTGAATCCACCTTAGACATCTA
TTGCCATTCAGCCAGCAACAAACACACATTCACACTCCTCTGTGCAAACCTTTCTTTGCT
CATCTTGGTGAGAAAACACATCCAAGAGTACCTGCCCG
Sequence 29
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGAAGGCACTGAAT
AAATTCACAAAGGCCGATTGGTTCACCCATTCTTTTAGAGACAACAGACACGCAATTCTG
ACGAGGACTCCTGTTACTAAAAGACACAGCCTCTGATACAAGAGAGATATCCCTTTGACT
GAAGCATTACCAGGGTCCCCAGGGCCCCCTCCCACTGGGGCGGTAACACTACGGGTCTCC
CCACCATATATTCCATGTCAAAGTATCTACACAAATACAGAGGAAATTAAGCAAGTAAAT

Table 1

ACGGTATGTAATTGTTATCATTTGTATTTCTTTAAGGCATATTTATAAATATTTTAAAGT
AAACAATATGAGGTGAGTGCCTTTCATTAGCTATGATCTTTCATACTGATATATTTTGAC
TGGATCTGAATAAGGCAGGTTTACTGGNGGGAGCATATTAACATAAAACAGCTTATATGA
TTTCAGGTGGGTACCTGCC
Sequence 30
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACAGGGAC
ATAATTTCTCTTTTGGCTGTTATACATTTCTTTTAAAAAGCAAGTGATTGGTAGGAATTT
GGCAAAAGTTGAATAAGTTACAAGAACAGGCTTTTATTCATTTGCTATTTGGTTTTTATG
TTTCTTGTTTACTTCGTTTGATTTGTTTCTCAAAACTCACTCAGTGGGATTACCTGTCTG
TCATGTAGCAGCTTTTTAAAAAACTGGACTGTGCAGCGTGGTTCTGAGTGCAGTCTTTAT
AAAGCCCAGNGCTGNACCT
Sequence 31
ATACGACTATTTAGGGCNAATTCCAGCTCCCCGCGGNGGCGGTNGCCCGGGCAGGTTNCT
NACGCGCATANTTTTGCCGCTCCTATTTTTTTTTCTGTTTANGTGTTTTTATGGATCTAA
GNCAAATCTTTTGGCAATATATAAAAATGTAAATAGTAAACTTTATTTATTAAGAATGTC
ATCTTTTTTAATTTATATTTACACAATTGTTCATCTAATTTATTTTTTCTATACAGTTTT
AAATACTCAGACATATTTTGCTGTTCATGATATTTTTATCCTGTTCTCATGGATTTGTTT
TCCCATACTGNTTTCTCTGATCTCAATTACAGGGTGGGATCTCACAAATAATAATGGCAG
AGACAGAAATATT
Sequence 32
CTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCATTGCATC
ATGAAGTTTGGGCATATCAACATTTTGACTCATTCGGGAAATCATACGCATTAAAAGTTG
AAGCTTTCTACGATTTGGTGGGGGAAGTAACAAACAACATANCTGTANAGCATCNATGGC
AACCCTCTCTAAATGAGGTTGCAGCAAGCTTTGTGTGCCAGTCAACATAGAAGAAGCTGG
AAGTAAAGAATTTTCTGAAAGTTCTATTGTACCTTGGCCGCCCGGGCAGGTACGGAGGTG
AACTGAAAGAGACTGCTTCCATTGGCCTAGTCCAGATGAGTGTATATATTCCCATCAGAA
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T
Sequence 33
TCGAGGTACCTAAGTCAAAAGGCACTGNTTTGGAGATGGCACACTCATTTTCATGCGTGT
AAAATNTTAAATCATCCACTTTGCAGGCAGTGGCTTTGATAACTCACTGCAGTGTTCAAG
GGGTTTATAAAACTGGTTATAAGCTTCAAACCCATGTTTAGAAAAATTGACACTCATAGA
AAAAAATGCTTTCTCTGGGCTAATTAAAATTAAAAAAATTGAAATGTAAACCCAGAAGTA
TGGCTCACAAAGCTATAGAAAAGATCCTTCATATCATCCCTGGCCCTAGCACCGTGAGTA
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TAATTG
Sequence 34
CCGGGCAGGTACTAACATGATGATAGGTTTTCAAAATATCTTTGTAGTGGATGCTGCATA
ATTACATTCACTTCTCTTAGACTGTAAAAGACTTTCTTGACTTGTTTTAACAGTAGAGAT
AGCAGTACCT
Sequence 35
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGTGCCCCTTTTCA
GACAGTTTTTGATTCGCTCTAGACTTTTTTTTTTTAATAGGGAAAAAATTTGATAATTTT
CTTTTTTCTACATGCACTTAAGACTAAAACACAGGTTTGGATTAATTTTATTTGCTTCCT
TTTTCCGCTTTTCTTCCCGCAGAGCCTGATGGGAGAATGTCCAGGGCAGGGAAACCACAT
TTTTTGTAGGTGATAACTCAATGAAAATTGGTGCTTATTTTTTTACACTTCTCTCTTGTGG
CTCTCTTGTGGGGCTATCTATCTGTTTTAAGGTCTCCTTGAAGGCGCACTGGGG
Sequence 36
CCGGGCAGGTTTTTTTTTTTTTTTTTTTTTNTCAGGGNTTGAACACNTTTTTAATTATTAG
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TGAAAGAACAATAGNGCTTAAANAATTTNAAATTTNCATANACATGTAATTTTTATTCCC
TAAAAATGAAATAAGATGAAACCTTTATGGGTANATTAATGGGATNTTTTA
Sequence 37
AAGGGCGAATGGACTCCACCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTTTCTTTT
TTTGGAGAGAACTCCATTTTATTATGGAAAGNTAAAAAACAAACAAANCAAAACAGGCAA
TTGATAAAGGCGGCACAATNGNNAAGGAGAGGTTGAGGTGTCTCCTTAGCCACCCGACAC

Table 1

CTGCCCGGGCGGCCGCTCTANAACTAGTGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTC
AAGCTTANTCCGATACCGTCTGACCTCGAGGGGGGGCCCCGGTACCCAACTTTTTTGNT
Sequence 38
AGGTACAGAAACCTTCAGAGAGGATAAATAGCTTGCCCTGTAGAAGCAGGACTGAAACCC
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CACACCCCTCACCATCCTNTNTACCTTAAATATCAAAGAGGGCAAGAGNGAAAGGGCTTT
AAAGATAAGTTATTTTTTTAAGGAACCTTAATATTATTTTTAAGNAAGTAACCCAAATTA
GTGACGTGAAATTACAANAAACCTGNCCGGGCCGGCCNGCTCTTAGAACCTAGTTGGAAT
CCCCCCCGGGCTGCAGGGAAATTTNTGANTTTTCAAAGCTTTATTCNATACCCGTNCGAC
CCTTNAGGGGGGGGGNGCCCCGGGTACCCAAACNTTTTTGGTT
Sequence 39
TAGGGCGAATTGGAGCTTCCCGCGGTGGCGGCCGCCCGGGCATGGTCCGGGCAGGTACAC
ATGCATGCATACACACCCATACAAACATCTGTGTGAGGGCAGTTCTGGAGATGAGCAGAG
AGAGACCGGAATAAACTCAATCTTTTCTTTCCCAAGCTCCTAGCCAACACTATCCTTGGG
AGAAAGAAATTTGCAGAAACTGCTNANACCAAGTGTGGAGATGTCAAGCTAGTTCACACT
CTGAGGCTCAGAATATGTAGGACATGCACAATTGTGCAGTCCTTTGGGATTGGAAGTGAA
ACAGTCTGNGATCCCCTACCTTCTAGGGAACTAGGACCTAGGAAGAGGTAAAGATTNTCA
GGTATGCAAAGCCGCCCCA
Sequence 40
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TGGAAGATTTACCAAGGAGGAAAAATCAAAAGAGCTAGGTGACGTGATGGTTGACATTGC
AAGTAACATCATGTTGGCTGATGAACGT
Sequence 41
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AACACTGGCAGCTGGAGATGGCGGACACCGAGATCCGTGCACGAGACTAGGTTTGA
Sequence 42
CCGCGGTGGCGGCCGAGGTACCCTTTGCCTCCTTTTGTGGGGAGATATCTGGAAAATAGC
TGAACAAACTCTACATGTGGCAAAACAAAGTGACAGTTGTTATAAAATGTCCACTAAAAT
TACCTGCTAGCATTACTACGTATAACTGAAGTTTTTGCATATCCGCATAAGAAGAAATCC
ACATTACAAGGAAAAGTACACCTGCCCG
Sequence 43
CAACTTCGGCGCCACCCAATCGCTCACCTGGAACGGCTTGCGGATCAACCGTTGCTGCGA
TGCCAGATNCACTTTGTCCTGCAACTTGGCGAGGAACACCGGGTCGAGGGTCGACGGGAA
AATCTCGCTGAGTTTCTGGTCTTTCAAATCATTGGTCAGGATCACCGGTGGATAACTCGC
CAGCCCCGACACCAACTGGATGTAGGCCTGCTTGTTGTTGTCATCGGTCAGCCATTGCAC
CGCTTGCTGCTGCGCCTTGAGCAACGTGGCCACGGCTTCAGGATGCTCATCGACAAACTT
GCCGCTGCCCACCAGCACACTCTGGATACT
Sequence 44
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AGTGTTCATCAGGGTGGGACCCCATTCCAGTCCAATTTTCCTAAGTTTCTTTGAGGGTTC
CATGGGAGCAAATATCTAAATAATGGCCTGGTAGGTCTGGATTTTCAAAGATTGTTGGCA
GTTTCCTCCTCCCAACAGTTTTACCTCGGGATGGCTGGTTAGTGCATGTCACATGACATC
CACATGCACATGTATTCTGTTGGCCAGCACGTTCTCCAGACTCTAGATGTTTAGATGAGG
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Sequence 45
AGAAGACTAAAGACAGTTATCTTATAATAACGAAATATAGTATAAATAGCACCTTATCAA
GAATTCTGCAGGGGTTTTAACACTTACAATAATAGGAAATAGCCATTAAAAAGTTGCTCT
AACTTTAGATTTCTAACTTTAGTGTTCTTTAACAAAGGCCATATTTTGTGGCCTTAAAAA
CAAAAAATTATATCTGGCTTTATCTATTAGTAAACACAAAGGGTCCATATTTTATTCTGA
AAAAATATTTATTATATTCATTCATAAATGTTCTAACTAATTTAACTAAAAAAATCTTCT

Table 1

AGTATTTTCTGATGCCACAAGCTTACTAAGAAAATTACTTCTAAAAATTGGTNATATAAA
TCATCAATGGATTTACCCTACTTTAAAAAAGAGGGGTATCTGGNTTTCTCTTACATTTAA
TAACCTGAAAATGGAGGTCTATAAAAATATTTTTTAAAAAATACAGNGACNCCTGNTGGA
GGTTTTGGTAGGGCCCCTTGGTTTTTTNAAN
Sequence 46
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCACTAGAAT
AATGCTGTGTCCTCCTGTTACACATACTCATGGTCTCTCCTACTCTCCCTTCATCACACC
TGTGACATCTTGCAATTTATATTTGATTGTGTCATTATCTAATGTATTCCTCCTGGACTC
TAAGCTCCAAATGAACAAATGCTTTGTCTACTTTGCCATAACTGNGTCCCCAGTGCTTGG
CATGGGACCTGGTGCAGAGTAAATACATCATAAATATTTTGTGAATGAATGAATGAATGA
ATGACCATGATTAATAAAAGGATATAGCTGCTCAGTCTGGTGCTGATAATGGTGGTAGTG
ATCAAAAGGGTTNAACCACAGGTCATTAAATGAAAACAGCTAACTTAGTGCTTACAGGAA
CCATACACTCCCTGTGTATAAACATGCCGGTGTGTGTGTCCTNGGT
Sequence 47
GCCCGCGGCCGCCCGGGCAGGTNCAAAAGAACAGCATAAAANCCANAAANTTNGAAGCNA
ACAAGGANNNGCAANGGGCCGGGAAAAGTAAANAAACAGCGGCCCGCGCACAANCGGNNA
NACAAGACAAGGAANNNAACAACCCAANCCCCACACGGAGAAGGAGAGCCNAAAAAAGGA
AAAGNCGCCAGNCAAANGGAAGCCCCGAGGNNAGGAANGAAACCAACANGAGACCACCGC
AAAAGAGAAAACCNANGNGGGCAANGCAAACCGNGAAAAGANGGGNCCCGNCCAAAAAAA
ANAANNNNNCCCCTGGCNGNAGGGANGAAAAANATGGGCATATAGCCCAGAGCCACNAAG
AAGAAAAAACANCCCACCCCCAANAAANCNAAGGGAGGCCCCAACNGAAGGCCAAAGGGG
GNCCCAAGGGAAAAAAAANGGANGAAAGAGCCCCCCNGGGANCCAGGGAANGGGNAAAAA
AGGGGGGAGGAGGGNGGAAAAAAACCAGGGANACCCNAAAAACCGGCNAAAGGGCCCGNC
ACCCCAAGCNNAGGGAACCCNACCGGGAANGGGGGGGNG
Sequence 48
CCGCGGTGGCGGCCGAGGTACAAGAGAACAAATTAAAATTGAAAAATTGATTTCACTTAG
AAAAACTTCTAGGAACAGGGTGAACCACTGATTTTAATTTGCCTAATTATCTTATGACAA
GTATCAAATTAAGATGACACTTAAAGATCCTTAGCATTAACTTAATGATGGAGAAGAGTG
CTCAACAGACAGTTCCCAGTAAGGTAATGAGATGCCATTTTCAGAGACATTCTAAGAAGA
TATTTTGATTCATTAAAACATTAAATAAAAAGCCCTCCTCAGATTGGAACCCCCAAATCG
ATGGAGCCACATTAATAATACTTTTCATGCCTCACTTTGACATGACAGGCATTTNGATTT
TTTTAAAGATCTTTAATACTTT
Sequence 49
CGCNGGCGGCCGCCCGGGCAGGTNCGAGAAAAGAGCTAGGGTAGGCAACTTAAACTTACA
CAGTGCCAGTCTCAGGAGGTCAGTAGCTCACAGAACTCAACAGATAAACTGGATTAAAAC
TTAAAAGTCTTCTTTCTATTTGAGCCCATAATGACTATTTTGAACATGGCTCTTTTGCTG
CTGCCTATATATAAATTTTTTATTAATTTTCTTGTATTGGGAAGATCTTGAATACGCTCC
AGGATGAGAAGAAAAAATACGCTGACACTGCTAAATCGGGTATATGTTTTTGCAATAAAG
AACACTGGTCAATATACAACTGAGGAAAAACTGAAACAGATGTGAGTCCTANAACCACAA
GAGTTTGAATTTGCCCAGAAATGCTATTTTAAACACTCTATATGTTGGCTGCTGTTTTTT
GGGGAATAATGCATTCTTGGCATCCTTAAAAGGTTTCAATATGTTACAAAGGTTATCCCG
GAAAGAGAAAAAGC
Sequence 50
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTCTGTCTTCTGGACCAG
TCAGTCTATGAGCTCTTCTTTGAAACAGTCTTAGACCCAGAATGGTCATCTCACCCCCAG
AAGACATGGTTTCCAAGGGTGGGAGGTGTTAGTTATGGGTGCCGAGCCCCACTTCCTGGG
CGACAAGGCAAAGGTCAATTTCTCCCTGCTTCAAGAATGAAGAGGGAACTGGTGCTCCTT
GAACCAAAGATTCTTGGAAGGGTCATTGTCACCAAAGTGGCTGGTGTGGGCAGGAGCACC
AAGTGCAGACAAACCCACCGGGGCCTGGCGGGGCAGCCCTGTCATGGTTTCTGTCTTTGT
TCCTGTTAGTGAAACAGAAGACCCCCGACCCCCGCCACCTAGCAGCATGGAACACCTGCT
GCCCAGATACAGACAAGGCTCTGCTTTGTCTCCTTGTGCTGGTTTTTGGCAGAAACGTTA
AAGGGGCTGAAGGCCTGTGGGACAGAA
Sequence 51
GCTCCCCGCGGTGGCGGCCGAGGTACTCATNATAGTTACATCCCTATATAAAAAGTATGT
TTACATTTAAAAAATTAGTAGATAACTTCCTTTCTTTCAAGTGCACAATTTCATTTTGAC
TTGAGTCAACTTTTGTTTTGGAACAAATTAAGTAAGGGAGCTGCCCAATCCTGTCTGATA

Table 1

TTTCTTGAGGCTGCCCTCTATCATTTTATCTTTCCCATGGGCAGAGATGTTGTAAGTGGG
ATTCTTAATATCACCATTCTTGGGACTGGTATACATAAGGCAGCCGTGAAACTGGAAAGT
CATTTTGATGACTGATGTGATACATCCAGAGGTAAAATGCATTTAAACATATTAAAGGAT
TTGCCAAAGATCAATTTTCTTGCTGACATAAAAATCACACAAACCAGTCCCCCCCAAACC
ACAACTGNCTCTCAAATAGCTTAAAAAAATTGGAAAACATTTTAAGGATTTTTCAAGGTT
TCTAGATTTTNAAAAGGATGGTCAGCTTTTAGAGGGNATGGTNAAAAATTTT
Sequence 52
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGAATTTACTTGAC
CATTCCCCTTATTTTTCATCTAGAGGAATCTCGGATTCAGCCCTTTCATTGCTAAGACAC
CTTTTCACTGAGGTTCTTACCAGCTCAGCCAAATCTCCACTCTGCTATAGCAGAAGCAAT
AATGTTTGCTTTAAAAAGATTTCTTGACCNATGCCTTTTNTTANAAAGGGGGGTAGATTA
TTTTGAACTTNCTATCATCANANCAGNCCCCNAAANGGGGGGGTTGGGGGGGGGATTTTT
TTTNTGGGGNNGNNNTTTTTTTTNNCCNCCCCCCCCCCCNNTTTTTTAAGGTTTTTGNGG
GGGGGGGGNAAAGGGGNATTTTTTTTTTTTTTTNNNCNCCNNGGNAAAAAAGNNNNNNAN
TTTNTTTTTTTTTNNTTNGGGGGGGGGGGGGGGGGGGGG
Sequence 53
AAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCCATGTGGAATCTGTG
AGTGTCCTCTTAAGTAGCGTGGGCTAGCCAATCTGCCGTTCATGGTGTATTGTAAACTCC
GAATTCCATATGTAATAGGATGCAAGTCTAAGCGTTTCATGTGGACATAAATGTATCTAA
ATAAAACTTTCCCTAGCACTGTGGCTGACCTCACCCTTACTTTTATACTTTAGTATGAAA
CTGATGAGAACTTTGGTAGTGAGTATTTTTTTTATATATATACATATATATGTACCTGCC
CGGGCGGCCGCTCTAGAACTAG
Sequence 54
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCACGCGCATAAATTTGC
TGCTCCTATTTTTTTTCTGTTTATGTGTTTTTATGGATCTAAGTTAAATCTTTTGGCAAT
ATATAAAAATGTAAATAGTAAACTTTATTTATTAAGAATGTCATCTTTTTTAATTTATAT
TTACACAATTGTTCATCTAATTTATTTTTTCTATACAGTTTTAAATACTCAGACATATTT
TGCTGTTCATGATATTTTTATCCTGTTCTCATGGATTTGTTTTCCCATACTGTTTTCTCT
GATCTCAATTACAGGTTGGATCTCACAAATAATAATGTCAGAGACAGAAATATTTTGCCA
CTGTTGATTACTATACTTTAAAGTTCTATATTATGAAAATATATAATAGCTTGTACCTGC
CCG
Sequence 55
CCGCGGTGGCGGCCGCCCGGGCAGGTACAACTATATATACATGTGCATATATATGTAAAT
TTATATTTATATATAATATCTTTATATAGATAGATATCTGCAGACAGGTTATTGATTATA
GAGACCCAAGAAAGCAACTCAATAATTGTTCAAAGTTTTCCTCACTGACTGCTGGTGTGT
AGTTTAAGAAGCCCCCATTTGTTTGCACTCAGAATGCCTTATCTTCTTTTAATGGAACAC
TTGATGTGGAATTTTAAGTCTGAGAAGTGAGGTGCCTTCTGAAGAAGAGATTTTAGAGAC
TCCCTTCCTCTATAAGTTGGAAATGACCAAGAAGTCTTTAAGTAGACGACAGTTAGCTGA
CTTTGACATTGTAGGGACGTAATCAGCTTTTAACCAAATTATAGAACTGGTAAAGGGTAA
AGATCAAATTTGCCAAAAAAA
Sequence 56
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGAAGAAAAGAGCTAGGGT
AGGCAACTAAAACTTACACAGTGCCAGTCTCAGGAAGTCAGTAGCTCACAGAACTCAACA
GATAAACTGGATTAAAACTTAAAAGTCTTCTTTCTATTTGAGCCCATAATGACTATTTTG
AACATGGCTCTTTTGCTGCTGCCTATATATAAATTTTTTATTAATTTTCTTGTATTGGGA
AGATCTTGAATACNCTCCAGGATGAGAAGAAAAAAATACCCTGACACTGCTTAATCGGGTA
TATGTTTTTGCCATAAAAACCCTGGNNCATATACCACTGGGGGAAAACTNGAACCCATNT
GGGGTCTTTNAACNCCAAAGGTTTTAAATTTCCCCCCAAANNCTNTTTTTTNAAACCCCT
TTTTGTGGGGGCGGCNGGTTTTTTTTGGG
Sequence 57
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCCCGTTCTGCCTGAGCA
TTTTTTCCTAAAGGGAAGAATCAATAGTTTCTGACTGTTTTAACAGCTGAAAGCTCCAAC
TGGAGGCAGAAGATGGGATGGCTTTTCACACACGTGCGTGCAAGTTTAGCCACCTCCAAA
GGCCTTGTTCTTAAAGCA
Sequence 58
CCGCGGTGGCGGCCGAGGTACTGGGAAAATTTATAGAAATCATCTAGTCTTACCCTTCAT

Table 1

CTTACATATAAGAAAAATGGTCTTTTCTTCTAATCACATTTACAAAATATGATATAAACC
TTGACCATGAATGTATGAGCCTAATTAGAGAAACAGAAAATCAGCATGTCAGTTTTCCTT
CATTCAAAAAAACATAGTCTTTNTAAGCAGACATTNTGGNGGTAANANGCCTAGTTTAAA
GCCCCCCGTGGNGGCTCNAAAAANTTTTGGAATGGACTTCCCGNCNCNNCCNTTTTAAAG
GANGNCCCCCCCNCCCATTTTTCCTGNCCCCNCNCNGNGNNTTNNNNGAAAGGGGTTCCA
CNCCCGGGGGGGGGGGGNGNTTTTNNCCCCCCCCCANGNTNTTTTTCCAAGGGGGNTTNT
TTTCCCCNTTTTTNTAAATAAAANAAAAANNCCCCCCCCCAA
Sequence 59
CTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGTAAAACAAGGATCAT
CGATGTTGTCTACAATGCATCTAATAACGAGCTGGTTCGTACTTTTAGTAACAGTTCAGA
ATTCATCTTTATCTCCTACCTGCCTCATCGGTGGAAGTTTAAAGTCATGATTTTTTTTAG
ACATTGATACTTGTGTCTATAGACAAATAAACTCATATTAGATGACAATTGATTTTTTAA
AAGTCCAGGTAGAGAAAGGAGCAATCATTTTGAACTAAAATCTTTCTATGTTTTTTGATT
ACTATTCAACTTGCTATTTTTTAGCAAAAAGCCGAAGTTTCAATTAGTGTTCATCTCAAA
TCTTATTGCTTTCAACCCGGGGTACCTGCCCGGGCGGCCGCTCTAGAACTAGGTG
Sequence 60
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGATAGAGA
TAATAGAAGACAAAGAGATTAAAAGGAAATAAAAATGCATGATTAAAAACTAAGAATAAA
AAACCTATTTTTATGTTTCCTAAAGGAAATTGTTTATTCTACAGACTCAGTAGGTAGACA
CAAACATAAAGATTTCCCTAGAAGACATAGAGTGGATTTGATAACACTGTCTGTTATTT
TCTGTACCT
Sequence 61
GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATATTATACCTTTTTAT
TATTGTTATAATTATTATGGGTATTTCTAATTAATATGATGTTGAAACCTGTTTGGCACC
TTCTGGAAGCTACCAAAAAAATGACACTCCATTGAAGTGCTTAAAAGCTGTTCTCATAAG
AATTCTACTGGCCTATTGCCNAAAAAAAAAAAAAAAAAAAAAAAAAG
Sequence 62
TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTGAAAAGCACAATAAC
TTGTATTNTTTGCACTNAACACAATGAACCTTTANTNTCCAACCAGTTTTCATTCTCTGC
ANACCCGGGCTTTNTTTTTATAAAAACTGCTTTCAAAAGGCATAGAGACACCACACATGG
TCCACAGTAAATTCAAATAGAGAGGNGCAATAGTTGCAGTGGTAAACACACAAAAAAATA
CATTTTTTTGGACTAAAAATCTGGTCACGGATAAAAGCATGTGCCTTTTCATTCTTCTCT
GGGATGTTACAACAGCAACACGCTCTAAAACAATTAAGTTACATGCCTAATGCTAAAAGA
AATGTGAGCAATCCTATAACCAGCT
Sequence 63
ACTATAGGGCGAATTGNTGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATTTCACA
AACTCTGAAATTGGGTTCCATATTGGCAAGGCTGCCACAGTTGTTAAGAATAATCCTCTA
TGTTTCTTCCTCACAAAACCATATCTCATTTATATCCAGACCATTACTTCACTATAATTA
CAAGGACAAATTATTAGCAAGAAATAAGAATAGTATTAGAAGAATTGATCCTATTTTGAA
CCCCTCTCCAGTATCTTCACACTCTTGTCAACTCTCCAGGCCTCTCTCTTGCCCTGAGTT
ATCAGCCTGTGTGGTGTTAACTACCTTAGAAGGTACCTCGGCCGCTCTAGAACTAGnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGNCGACTCGAGGGGGG
GGCCCGGTACCCCAGCTTTTTGTTCCCTTTTAGG
Sequence 64
CCGCGGTGGCGGCCGCATCCTGAAGACCTCCTTTTTGGGCACCGGACGCCAGGTGTTCTA
CAAGTATGGGAAACTCTCCAAGTTATCAGAGATTGTCTACGACAGTACCGCCGTCACCTT
CGGGTATGACGAGACCACTGGTGTCTTGAAGATGGTCAACCTCCAAAGTGGGGGCTTCTC
CTGCACCATCAGGTACCGGAAGATTGGCCCCCTGGTGGACAAGCAGATCTACAGGTTCTC
CGAGGAAGGCATGGTCAAT
Sequence 65
GCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGAGGTGTGGTGCCTATAAGCCAGGG
TCGGAAACTTTCCAGACAAACCTAGATAGCTCTACTAGGAGGGAGTCAACGACCTATTGT
GTCAATTAGATCCCAGCCTGGACAAGGGCATGACTATTGCTGTTTGGGGACACGTGGCTC
TGTGTTGAAGGCAATGACTGTGTGGCTGTTNGCCATGTGGCCTGTTCTCCCCTAAGCCCT
GAACCAAAGGTTNCAGGCCCAGATGAAGAAGGCCCCCTGGGAATTGCATGCCATANGGGG
TTGATGCTGGACATTTACCCAGCCNTCCATTAAATGAAAACCATTTTTTTTTTAAAACTT

Table 1

ACCTGNTTTTNAAAAAAATTTTTTTTNACCCANCAAACCCTAAAAAACCTGCAAAANGGG
GGTTGGGTTTTANNTTTTNAAAAATTNTGGGAAAAATTAAAAANTTTCCCAAAGAAACC
CCCTTTTNGAACNTNNTNCTNNNNANNCNNNAAATTTTAANANNANTNTTAAAAANTTTT
T
Sequence 66
CCGCGGTGGCGGCCGCCCGGGCAGGTACGTGGAGTCGCAGCTGCAGCGCACAGAGACTGG
AGCGACGGAGACCGTCACGCCCTCAGAGGCCCCGGTGCTGGCAGCTGAGCCCGAGGCTGA
CAAGGGCACTGTGTTGGCACTCACTGAAAATAACTTCGATGACACCATTGCAGAAGGAAT
AACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCATTGTAAGACTCTGGCTCCTACTTG
GGAGGAACTCTCTAAAAAGGAATTCCCTGGTCTGGCGGGGGTCAAGATCGCCCGAAGTAG
ACTGCACTGCTGAACGGAATATCTGCAGCAAGTATTTCGGTACCTCGGCCGCTCTAGAAC
TAGGTG
Sequence 67
CTCCCCGCGGTGGCGGCCGAGGTTTTTTGTTCAATACATTTTAGATTAAGGATTGACAAG
TAAAGATACTGCTATGGAATGATACATTGTATTTTCTGCATTGTGTGAAATAAGTTTTTA
TTGAAAGTCAAGTGACATTTCAAAAGAAGTTCTATAACAATTATGTTTCATGCTTAAAGT
AAAAATTCCCAGAGTTTAGTTTAGAAAATGTAATCTTTTAAATTTCAGACTGATATATTC
CCAAGTATTTTCAT
Sequence 68
CCGCGGTGGCGGCCGCCCGGGCAGGTACACTGACTCAAATTTTCTCTAATCATTCATACT
CGCACATTCACTCAAGCATACATACTAGACATAAAAATTGTGCAAGATCAAGCATCAGCT
TTCTATTTTAAAAGCCTTAATTTAAAAAAACTTAGATAGGCTCACTGCAGTTCCTTTAAA
GGAATATTCAGTACCTCTGAAAGGTGGCATTCTCACAGATGGGTTGAATGAAGCTTTCAT
CTGGACATTCTACCACCACAAAAGCAGCACCAGGATCTGGAGGGAGTACCTCGGCCGCTC
TAGAACTAGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTC
GACCTTCGAGGGGGGGGCCCCGGGTACCCAGCTTTTTG
Sequence 69
CCGGGCAGGTCCAGGGGTAAAAAAAACCCTTGTGAATCCTGCACACATCCCTTCCTGTGT
TGGTGTTTCCTTTAGACTGGCCTAGCCTGGGCATCACTGTAAAGTATGTGCAGTTGGTCT
CTGTCCTGTACCT
Sequence 70
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAATACCAGTGCTTGTTATACTAGTTACTA
AAAGAAGAAGAAACTCAAAATTCCTATCTGCGTGCTAATTTGAAAAGAACAACGTAGATA
GATTTGTTGGCACATATATATGGCATATTCACATATGGCATATATACATATGGGGAGAAA
ACATGAACCAAAGGCCAATTCAGTTATGGGAGCTCATCTCCTTCCATCTCTCCTAATCAA
GAGCAAAGGGAACAGCAAGGCCTAACAGCAGGGTTGGGGAAGGCAAAAGGACTGGGCACT
GAACTAAGTGAAAGGGGCGTCTGGTCTTATTTCAGAGGAAGAGGCTGGAATTGGGCTTT
Sequence 71
CTCCCCGCGGTGGCGGCCGAGGTGTGCTATAGACGCACAAACGACCGCGAGCCACAAATC
AAGCACACATATCAAAAAACAAATGAGCTCTTATTTTGTAAACTCATTTTGCGGTCGCTA
TCCAAATGGCCCGGACTACCAGTTGCATAATTATGGAGATCATAGTTCCGTGAGCGAGCA
ATTCAGGGACTCGGCGAGCATGCACTCCGGCAGGTACCTGCCCG
Sequence 72
TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACCCCTGCT
GCTGGCTGGGTTCTCAGCCCCTGACCATGAAATGGTTCCACATCGATCTACAGAAAAAAC
AGCCACTTTGGCCCGTGGGCCCTGACGCGTAATATCATTATGGAGTCAGCAGCGCATCCC
GTCCCATTATCGCCTGGCCAAGCTTTTCCAAGGCCAGCCTGGCTGCAAATGGCTTTCTCC
TGTCTAGGGGGGCCACAGCCACTGTTTGCCCTCCACTACCGGAGGAGAAATTTTATCTTT
AATTGACACTGGCTGCCTGCCACCCCCTTGCCTTCGGCTGGCCCAGGCTCCAAGCCCGGA
TCTTTTCCTTACACTTCAGGAACAGGCTTCCCCTGGCTTCTTCCCTTCTTCTCGGCAATT
CCCGTCCTCACCTTGGTTGTTCTACACTGGCCAAGACAGTCCNGGGGGGNGGGTCTTTGG
CCTTT
Sequence 73
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCTCT
CCTTCCCTGGCTCTGAACATCATTCAGAACAGGAACATGGGGAAGCCAGCCCAGCCTGCC
CTGAGCCGGGAGGAGCTGGAAGCACTCTTCCTCCCCTATGACCTGAAGCGGCTGGAGATG

Table 1

TATTCACGGAATATGGTGGACTATCACCTCATCATGGACATGATCCCGGCCATCTCTCGC
ATCTATTTCCTGAACCAGCTGGGGGACCTGGCCCTGTCTGCGGCTCAGTCGGCTCTTCTC
TTGGGGATTGGCCTGCAGCATAAGTCTGTGGACCAGCTGGAAAAGGAGATTGAGCTGCCC
TCGGGCCAGTTGATGGGGACTTTTCAACCCGGATCATCCGCAAAGTTGTGAAGCTATTTA
ATGAAGTTCAGGAAAAGGCCATTGAGGAGCAGAATGGTGGCAGCGAAGGATTGTTGGTCA
TGGGAGCCCACGATGAAAGACCCTCAGTGACGACCTAANATGAAGCAGCAAAG
Sequence 74
GGGCNCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAT
AGATCCTGATCTACTGGCAGAGCTCAGCGAAGAACAGAAACAGATCCTGTTCTTCAAGAT
GAGAGAGGAACAGATCCGACGATGGAAAGAAAGAGAAGCAGCTATGGAAAGAAAGGAGTC
CCTGCCAGTGAAACCCAGACCAAAGAAAGAGAATGGGCAAATCGGTTCATTGGAAACTTG
GAGCTGATAAG
Sequence 75
TTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGCCCGGTACTTTGNTTCTNTT
GGGNAGCNTAANACAGNAACCCTCAAGGAGCTAGAGAACCGGATGGGAGACATGAGCAGT
AATTAACTCACTTGTTCCCCAGAGTNTCTATTTGGANNTGATTTTCTTTTTCTGNGACTN
ATTTTCCTATTTTCTTTCCTCCATGTAATTTTCACTATGGCCCAACTAATATAAACACCT
GGAAATTACAAGGAAAAAAAATTCTTCCTCTAATAACTNTCCAAATTTGNGGAATATTTA
TTTGTAANANCAGTTATCAAGGTATGCTTATATAGCAT
Sequence 76
GNGGGCGGCCGCCCGGCCAGGTNCAGCGTGGTCAAGGTAACAAGAAGAAAAAAATGTGAG
TGGCATCCTGGGATGAGCAGGGGGACAGACCTGGACAGACACGTTGTCATTTGCTGCTGT
GGGTAGGAAAATGGGCGTAAAGGAGGAGAAACAGATACAAAATCTCCAACTCAGTATTAA
GGTATTCTCATGCCTAGAATTTTTGGTANAAACAAGAATACCTTTCTNTGGCAAATAACT
AACCCNTGGNGGGACCAAAATTNTGGGATTTTAAAGTTGGGNTCCCANGGAAATTTTTTT
TAAAAAGGCCTGTTTTTTGGGANAAANAAANAAAACCTTTTTTNNTTAANNAACNTTTTN
AAAAAGNNGATTTTTTGGGGGGGGTTTNCCNTTTTTNACCCNTTNTTNAAAAAAAAGGNA
GGGGGGTTTTTAAAAAANTTGGGGGGGCCCCCCCCCGGGNGGGGGGGGGAANTTNNAAA
NCNAANTTTTTTNCCCCCCCCC
Sequence 77
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTCTCTTTGA
AATCTCATAGGATAGTCACACTTATAAACATTCCCAATATTCGGATTCTAGAAGAAATGC
AATTCATTAAAATTTTCCTGGCACTGAGAGTTAATCTTTAGCAGATTGCATGAAAATACT
GAATTCCTGGTAAGGAGATATTTTGTTTTAAAAATAATGTGTTTTGATACGAATCAGTGT
ATTAACTGATAACTAAAAAGTACCT
Sequence 78
CCGGGCAGGTACGTTGAACGTTTATTACAACTAATTGGCGATGTGATAAGACAGTGCTCA
CGTGGCCTGAATGTTGGTCACAATCACAACAAAGCTTAATCCAGCCCAGCATATATAAGT
GAAAATATAAACCATGAAGACATGTTTAGATATGTATAAGTACCT
Sequence 79
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCGGTTCTCTTGG
TCTTATTCCCATCCTGGCCAATGCTTAAATACTATTTGTTGAAAATAATTCTTTGAGACA
GATTTCAGCTACCTCCCTTCCAGGTTCGATTTAACTTGGTTGTAATTGTCAATTTGTTGT
TATAGGTCTTACCTGTGTGAAAGAAAGAAAAAGAAAGAAAGAAAGAAAGAGAAAGGAAAT
TATAAGGTCAAGTTAACAGTTTTGAGGTTTTGTGTTTTTTTCTGGAACTACTTCAAGTGA
GAAAATAAAAAAAAATGGTGACAAAGCTGTACCT
Sequence 80
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTGAAA
AGGAAGGAAAATATTTTATTAAAAGTTTTTTAAAGTTTATGAATNGAAGTCTATGAAAAC
AAACTACTTGATACAAAAACATTCAGATATTAGATGTCAAAATAAATCAGCACATTTGAA
AATACTATAAATTATATTTCAAACAAATATATACACATTATGTTAACCTTCAACAGGATC
CATTATCACTACTTAGAACACTGATATGTTTATCTTTTAAGTATGTAAAAATTACATAGC
TGTTAACTTTGTATGGCAATTCACCTATAACACATTTAAGAAAGCATTACAAAATTCATT
ATATAATAATTCTCAAAAGTTTTCTCACATT
Sequence 81
GGTACTTTAACTTTTGAAGGTGGTTTCTGGTTCCCCCAATCGGTGAGCCCAAAGACCTCA

Table 1

AATAACATTTTATTCACACAGACTTCTTAGAGATGAAAAGTTTCTAGAGAGCAGAGCCTT
TAGGGAACTAGGGGATGATGCATTCACTGAATAAATCACAGTATTATACTCAAGAGCAAA
TACGTTTTCTTTCTTATTGGTGTCATCTTTCCTTGTGAAATACGGCAACTGATGAAGAAG
TCTCCTATTGAGAATAACCAGACGAAATCACAAGGCTAGACAAGCAGCTACTAACACCAT
CCCCTTCCCCCTGCCCATGGTAAACCCTGCTGGCAAATGTATTTCTCCCTCCTAAACCTG
GGAGGACTCACGTTTCTGCACCCAGAGCCCCAGGGGGAAGTAAACAATGGGGAGTGAGCC
GATGAGGTGGGAT
Sequence 82
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGTTCTTATAAAAGATTCTTTCTCCCAGAATT
ATATCTCCTCAGAGCAACAGCAAGGTTCTCAGGATCGAAGCCTACTCTAGCCTGAAGGGC
TAGGAAGATTAGGATAAGGATAAGGATAATAATCCAAAAGTCTCGACAATTCCAGTAGTC
TCTGGATGGCTCCAACATCATAGAAATTTAACACTGTTCCACTTGTTTACAAAATCTAAC
ACTGGCTTAGACATTCTGGACTTTCAGTGAGGGTTCCAGCATCTGATGTCCCTCAACTCC
TTTCCAGGGTGAGAGGCCCACTTACAGGAAACTTAACTTCTCACCATGTGGACCCTGAGG
GGTTTTTCTCTTGCAGAAGGGCTAAAAAAGTGAGGAAGCTATGGAAAAAATGGTGGGTCAC
TTTTAAGGCAGACTGTTTGGGTTGTGTGGGAATTTTTCCTAACCTAAGTTCTACCATCTT
GGGATTATTC
Sequence 83
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGTGCGTA
GGTGGAGCGGTTGAAGCAAGGTGGGTGTGAAGCCCCGAGAGTGGTGCTTTGGTCGGACTG
GCACACTCCGGGCAGCTGGGAGAGTGACAGGGAGGCTGAGAAGGGGCCCGCTGGATCCCG
CAGCTGGCGCGCACATAGTGTCTGCTGCCCTGCTTAGGACAGTTCTCTTTGCATCCGTGA
GGAGCCAAGACAAGTCACAACTGCAAGTGAGGGGGTTGCCAAAGAGGTTGATCGATAGGA
CCTGGGAGGAATCCAGGGTCCAAGGAGGGAAGGAACTCAAGTTGCAGTTCTGGAACAGAA
GGACCTATAGATGTGGAGTATCTTGAAAGATGTGTGTGGCGACAGAAGCAAGTGCTGGGG
GAGTCTTGACAGTCCAGCTGTTGCAGGTGGGGGGTCATCTTGAAAAATGTCCCCCTCAGG
GGTCGTCAAGCCGAGGCATNTTCACCTNGGNCCGCTTTAAAACTAAGTNGGATCCCCCCG

Sequence 84
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTG
GAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCT
TCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCT
ACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT
Sequence 85
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTGA
GGACATTTTTGTCAGATTAACTATAACAGTGTAGTGTAGTTTTTAAAATTGCAGTTGAAA
AGTTTAGCTGTCTTGGAAGTCAAATTTATCCAATTGTTCAGACTTCTGTTACTACTTAAT
ATGAAGCCACCATGCTGGCTTGGACAGAATTAATTTCATTCATGTTATGGAGAATTCTAT
ATTACAAATCTGGTCCCCTATAATATGAACAGTGAGCAGTCAGAAATATACAAAGGGTTA
AATAGGGTAAAGACTTTGGCCAAGAAAGGAAAGGCCTTAGTTCTACCATAGAGTATCTTC
TCTAATTAAAATGACTGGGAAATATATGGAAGCAGAAACCAGCACAAAGCACTACCCATC
TAGAAATAATTTTTCAGTTAAAAAACAACTCTCAAAACCAGCACTCATTTCTCTAAGATA
GGGTTATAAGTATTTTACGATTTCTTGGTATATTAAAAT
Sequence 86
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAGCCAGCTCCCACC
ACTCACGGCCTTCATCCTGCCTTCGGGAGGCAAGATCAGCTCGGCGCTGCATTTCTGCCG
GGCCGTGTGCCGCCGGGCCGAGAGACGTGTGGTGCCTCTTGTCCAGATGGGAGAGACCGA
TGCGAACGTGGCCAAGTTCTTAAACAGACTCAGTGACTATCTCTTCACGCTAGCCAGATA
TGCAGCCATGAAGGAGGGGAATCAAGAGAAAATATACAAGAAAAATGACCCAT
Sequence 87
CCGCGGTGGCGGCCGAGGTACAGAAGAGGTTCGTGGAAAAGGAATATGCTTAATAACTTC
GAAAAAAATACCCATAAATGGACAAGGGTGTTGGGCCCCCTTTCTGGGTGGATTCAGGGG
TAGTCAGATATTCCAGGTTAAACTGAACCTGATGCATCAATCTCCTTCTTGGAGGTGTCT
CAGTGTGCCAGACACTGAATCCACCTTAGACATCTATTGCCATTCAGCCAGCAACAAACA
CACATTCACACTCCTCTGTGCAAACCTTTCTTTGCTCATCTTGGTGAGAAAACACATCCA
AGAGTACCTGCCCGGGCGGCCGCTCTAGAACTAG

Table 1

Sequence 88
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAAAAGGAT
TGGAATTGTGTTTAGTTTTTGGTGTTTAGATTATTTTCTTTGTGTCTTTCTTCTTTTTCT
TTTTTTTTTTCTTTTTTACAATAGGCCAGTAGAATTCTTATGAGAAACAAGCTTTTAAGC
ACTTCAATGGAGTGTCATTTTTTTGGTAGCTTCCAGAAGGTGCCAAACAGGTTTCAACAT
CATATTAATTAGAAATACCCATAATAATTATAACAATAATAAAAAGGTATAATATGGTAC
CT
Sequence 89
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTGCACGTCGAATTA
AGGATCTAGCTGCTGACATTGAAGAAGAGCTTGTTTGTAGACTGAAAATTTGCGATGGGT
TTTCACTGCAACTAGATGAATCAGCTGATGTTTCAGGACTTGCTGNGCTGCTTGTGTTTG
TTCGTTATAGGTTTAATAAGTCTATTGAGGAAGACCTACTCCTGTGTGAATCTTTGCAAA
GTAATGCTACCGGTGAAGAAATATTCAACTGTATCAACAGTTTTATGCAGAAACATGAAA
TTGAATGGGAAAAATGTGTTTGATGTTTGTAGTGATGCTTCTAGGGCAGTGGATGGGAAA
ATTGCCGAAAGCTGTCACCTTAATAAAATATGTGGCTCCCGAAAGCACCAGTAGTCACTG
CCTATTATACAGACATGCCTGGGCAGTTAAAATAATGCCTACATCTCTNAAAAATGTGCT
AGACCAGGCTTTCCTGTACCTGCCCGGGCGGGCGCTTAAACNAGGGGGGATCCCCCNGGC

Sequence 90
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGAACAATG
ACAGGGGAAGGGTATTGGACACGGCAGCGTCCTCCTTATTGAAAACACATTATGTCAGTT
GGGAATTTTAAATAAGCTTTTAGCAAACCTAACACTAAAAGCAAAATANAAGAAAGCTAT
ACCATTACCATAATACATTTTTCATCTCATGGCTACAATGGAATTNTTGAAAAGGAAAAA
AAAATCCTATCTACATATAAAAACCTGCATGAATGAATCACTACATATGCTTATAATGAG
GAAGAGTTATGGGTCCTGAGTGTAATTTTTTATCCTTTCTTAAAAAGTTTCTGTATTATG
CATTTTTGATAACACTCTGATGATCCTTCCCTTACATTTGAAATGTTATGTACCCTNGGC
CGCTCTAGAACTAG
Sequence 91
CCGCGGTGGCGGCCGAGGTGGCTATTGAACTTCCTTTTCTTGTTTGAAGTTAGCTTCAAA
TTTGTTCCTATCCAGAATATTTACAGGTAATTTAGCATAGGAGCAAATTACCTGTAAATA
TTCTGGATAGGAACTACTTGAAATAGTAATTTGTTAAAAGATATGACAAAATGAAAATGC
TTAAACTACAGAAATTTAAAAATGCCATAACAATCTTGCGAGACTAACTTTAAAATATAC
TTTAAATGATTATTATGATTTTGGTGGTAACGATCCCCCACACACAACCACTATGAAGAA
ATAATGCCGCATTTTTCCCCCATTG
Sequence 92
ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACA
TGGGTGTTTTGATCTCTGTTCTTTCATACTACATTTGAACAGGGCAAAATGAACTAACTG
CCATGTAGGCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTAAAATTCCATGG
ATCTTGCTGGAGAAGCATCCAAGGAACTTCATGCTTGATTTGACCACTGACAGCCTCCAC
CTTGAGCACTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGTTTTCTCTGATGG
CACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCCTGGGTGCTCAGGGCATGCT
TATTAGCAGCTGGGTTGGTATTGGGAGTTGGCAGACAGGGGATGTTCAACTTAATGAAGA
AATACAGCTAAGGCCTTGCCAGCAACACTTGCGTAAGTTACTGGCTTGAGTGAGGGCTTA
AAAAATTNAAAGGGTACTGGGTTTTATCCTCTATCCCTTTTTCCCT
Sequence 93
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGATGGACGATACTGGCT
ACAGCGAGAAAGCAACCTTTGCCTCAGTGACATATCCTCGGGGCTATCCCTACAACGGGA
CAAACTATGTGAATGTCACCATGCACCTCCGAAGTCCCATCACCAGGGCAGCTTACCTCT
TCATAGGGCCATCTATAGATGTTCAGAGCTTCACTGTCCACGGAGACTCTCAGCAACTGG
ATGTGTTCATAGCCACCAGCAAACATGCCTACGCCACATACCTGTGGACAGGTGAGGCCA
CAGGACAGTCTGCCTTTGCACAGGTCATTGCTGGATCGTCACAAAATTCTGTTTGACCGG
AAT
Sequence 94
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGCTGAAATTGAGA
CTCTTCTCCCTTTTGAGCAGAGGTCATTTTCTCTTGACATTGAATTCCAGTATTTGTGCA
GAAAAGAGGTGTCAATGAGGACTCCATGGATACTTTCAGTTGATCAGTATTGGCTCTGCT

Table 1

GCAGGGTGATTTTGGCTTCACACATAAATGTTGCAGTGGCATTTGTCCAGGGGAAAGCCC
GCTTGGAGGCTGTAGGATGACCCTGATGGAGGCTGTCACTCAAACAGCTCCAGGTAGTCA
GGCAGCTGGTCCTGCTGACCACAGGGATAGAGAAGGAGCTCCTTCCCCGGGGAAGTGATG
GGTT
Sequence 95
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGAAACCCACCTCACC
CCGGCTCACATCTAAAGGGGCGGGGCCGTGGTCTGGTTCTGACTTTGTGTTTTTGTGCCC
TCCTGGGGACCAGAATCTCCTTTCGGAATGAATGTTCATGGAAGAGGCTCCTCTGAGGGC
AAGAGACCTGTTTTAGTGCTGCATTCGACATGGAAAAGTCCTTTTAACCTGTGCTTGCAT
CCTCCTTTCCTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGACAGTGACTATGTCAG
TCTAATCTCTTGTTTGCCAGGGTTCCTAAATTAATTCACTTAACCATGATGCAAATGTTT
TTCATTTTGTGAAGACCCTCCAGACTCTGGGAGAGGCTTGGTGTGGGCAAGGACAAGCAG
GATAGTNGAGTGAGAAGGAGTTGGAAGGGNTTTA
Sequence 96
CCGGCCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATA
CCGGNTATAGTNATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTNACTTAA
AAATGGGGGTGCGGAACATTANTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGG
TTAGCCGGGCCGAG
Sequence 97
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCG
Sequence 98
TATNCTGGAACTGAGCATAGACCTNTTNCCAGGCAGAGCTGACAGCAAGTNAAGGAGATC
ATAATCATGGGGACCAAACAACTTTGNCTAAAGTGTGAATGTNACCTAAGGAGAAGCTGT
GAGATCAGAAGGGNGGGGCAGAGGAGCAGACACCATGAGGGAGAGTCCTTGGGGGTACCT
GCCCGGN
Sequence 99
GGGGAACACCCCCCCNGNGGCGGCCGANGCCAANANCTTTTTGNGGGGGAGGNAAACCCCA
CCCCCCCAGACAAAACNGNCACGNACCNCGGNNTTTNTAGAACNAGGGGNGCCCCCCCCC
ANAAANAANNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnTTANAAAATTTTTTTGAGGGGGGGGGGCNCCCCCGNAAAAAACANGGNCANAGAAG
NNCCCCCGNGNGAAAGGGGGANCCGNNCACAANNNCACACAACACACGAGCCGGGAGCAN
AAA
Sequence 100
GGNAACCCCCCCCNGNGGCGGCCGCCCGGGCAGGNTCNCTTAGGGGGGGGGNAAACCACC
CCCCCCCCNGNGCGAAAGNCNACCNNNGATGTTTTCAGNTNCANGGGGGAANCNCCCNG
NAAAACGGGNGNGCAGGCNGNAANNNNCNNNCNNNANAAANNCNGCAAANCNAAAGAACG
ATTTTTCC
Sequence 101
ACCGCGGNGGCGGCCGCCCGGGCAGGTACTTTTGTNGGNTGGGGAAAAAACNCTTTAACA
AGCTTAGATTTATTATNGCGCCTTTTATGGAAGATGAGGAAGAAATAGGAAAGCAGTAAA
ATGAACAATGAGAATCTGTTACCCAAACTGATATAAACTCCCTCAGAAAGAAAGATACTA
CTCCCTAATCTNTNGAAGAGGGNAGNGGCAATAATGATCAAATGCCGNAAAGGGGANTGN
CACTACAGCTAATAC
Sequence 102
AGGTACAAGGGATTTTAACCNTTNNNCANAAANCCCANNNGTGAATGCTTNGCCATACTT
GCTTTAAGGTGTTATGGTNGGCACAGTTTACTGGCTTCGCCTGTTAAATTTACAAATGTC
CTGTTTGATACTACTTGTTAGAACACTATTTTTTTAAATACAGAAAAAGCTNCCTATAAT
GGCAACTTTCAGANGAAATTTAAAAAATNCACAGGAGGTATTTTATTTACCCAATGGCTT
GCCAGGGTTCCCTGGC
Sequence 103
CCGGGCAGGTACAGTTGGATTGACTACAAAAAAAAATTAGGCCTTGTCCATTTATCCAGA
GGTTTCCTTCAAAACTTTTAAAAAATTTTATCACCTAAAATGGATTTTAAATTATCAGAA
TTTAGATGTAGCAATTAAGTAAATCTTAAAGGAGGTGTAGAATTCCTTTAAGAAGTTATT

Table 1

GTCTGCTTCCCATTGCAGCAATGTCTGCAATACTACTTTTTTTAATGAGCCCAGAAACAA
TTCTCTGCAACTGTAAAAATTATGCCAGAATGCAAGTTTTTGGTTAGTGCCATAGTTTCG
TTTTGTTATTGAAAATGGGATAAGTCATGATTTATTCCCTCCCTTCTATGGAA
Sequence 104
AGGTACTTTTACCTTGAATCTACTAGAACTCTCTGCTATTCAAAACAAAGAGCTCATACT
TGTTGGAGTAGGGAAAAAATTAGAAATTTGACCAAAAGATAGATTCAATCAACTACAAAG
TCAATTCCAAGATGCTGATAACATCGAAACTCTTGAAAAAGAACTATTAGAATCTGGAGT
TGAACTTTAATGGATCATATACCTGTTTTGCTTGATCAAGTGATTGATCAGCTTAATATT
AAAGAAGATGGTATCTATTTAGATCTTACTTTAGGACGTGGTGGTCATTCGAGTCAAATT
TTAAAAAAACTTACTAGTGGCAAGCTTATAGTCTTTGATAAAGACAAA
Sequence 105
AACCCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTGCCATGTCAGTNATGACTCC
AATTTTCTGTGTGCAAGAGCAATCACACGGAAGCCCTGTTTAGTGAAGTCTTCCAAAACG
TTTTGAAAATCGACAGGAACTGTTTCAGGTTTACAGAGACCGGCAATGGCCTCGGGCGCT
CCTTTNATGTAGGCNTCCATTTTCCTATCCCCCAGCACCCTGGCAACCACACTCATACGT
TGCAAAGCAGAAGAAAATGGGAACTGGCGAACAATTCCTATCTCATAAGTAGCTGGAAGT
TCAAACAGCTCCATTTCTTGGTTTCCTGCAGGGGTAGATTCAGGAAGCAGTTGTTTGGGA
GGACGAACCACTGTGGGCA
Sequence 106
CCGGGCAGGTAAAAAACAATTAGTAGATACTAAACTACTATTTATTCTTGCCGGTATGGG
CGGAGCAACAGGGACTGGAGCTTCACATATTTTTGCAAAAGTAGCCAAAACTCTGAAATC
TTTAACTATAGCTATTGCTATCCAACCTTTTGATTTTGAAGATAGTAAAAGGCTTTCAAG
AGCTTCTGAAGGAATTAAAAAACTACAAGAAAATTCAGACGCGCTAATTGTAGTTTCCAA
TTCTAAAATCGCGGAGCTATACAACGGCATAAGTATTTCAGATTCTTTTACAAAAGCTAA
TCAAATTATTTTTGATATTATTTAAACTATTATTGATTTAATTAGTAAACAAGCT
Sequence 107
NNNAANCTCNCCCNCCAAACCNNNCCCGGGNNNNNNNNGGGGGGGNTTTTNTTGGGGGGA
NGGGGNNNNNNCCCNGNNNNNNNNGGCCGCCCGGGCAGGTACATTCNCAAGGGTTGGAAC
CCAAGCCCCACCCTGGGTTTTCTTAAGTTCATTATTCCCCCACCCCAGNAATTCCCTTGG
GAGTTCCTTGGCCAGAAGCCATCAGAGACAGCAGGCGAAAAGCAGGGCTTAACTGAATNC
CATATTGGGG
Sequence 108
AGGTACATCCCGAAAGACAGCAAAAAGAAGAAGCACCGAGCTGAAGATTACTCAGCAGGG
CACGGACCCGCTTGTTCTCGCCGTCCAGAGCAAGGAACAGGCCGAGCAGTGGCTGAAGGT
GATCAAAGAAGCCTACAGTGGTTGTAGTGGCCCCGTGGATTCAGAGTGTCCTCCTCCACC
AAGCTCCCCGGTGCACAAGGCAGAACTGGAGAAGAAACTGTCTTCAGAGAGACCCAGCTC
AGATGGGGAGGGTGTTGTGGAAAATGGAATTACCACATGTAATGGAAAGGAGCAAGTGAA
GAGGAAGAAAAGTTCCAAATCAGAGGCCAAGGG
Sequence 109
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGTACCTGCCCG
Sequence 110
AGGTACCGACCGCTCCGAGATCTGTATGAGTTGGAGGCAGGCCAGTGTGAAGGTGTGGGA
GGAATCCGCCCACACCCAGCTTCATACAGCACCCTGAGGACAATGTGGCTTCCCTGATTC
ACACCTACTGAGCCAAGGCCCCCTCTGAAGTTAGGTCAAGAGGGCCCACCCTAGCCGGGC
CAACTCATTCCTTTGAGGACCTGATACTCAATGAACTGCTTACTACCAAAAAAATGCAAA
GGATTCAGCAAAAAGTGCAATTTCCATTTGAGAAGTAAGATTCTCCCCAAAACATGACAC
CACCTTTTCATCCTTTCAGTACCTGCCCGGGCGGCCGCTCTAGAA
Sequence 111
CCGGGCAGGTACTACCATTTAGGAAACTGCTATAACACATAATTTCATGAAGTAACACCT
AATACGGTGTAGTTCCCTGGTCATATTTTATACAATTCAACCATATAAAAGGGTGTCACT
GTAATTTCAGTAGTGTGGGTTTACAAATAATCTGCTGGTTAGCTTATTACCTTGAGGTTT
TGAAAAACTAGAATTATATTGAGGCATTTCATAAACATATCTCTTGCACCCTCTTCATGG
TGGAGTTAAGGATAACTTGCAGGTGGTTGGCCAAGGCCCAATATAGATGATTATAACATT

Table 1

TAGAATTGGCAATTAGAAGTTGATAATCCATATAGGACCATAGG
Sequence 112
AGGTACCCACCTCACATTCTTTAACACTTAAGGTTTTTCTGGGTAGTAAGTGCAATACAT
TCTTATTATAAAACAATATGGACAGTTCAGTATGTATAAATGAGGATAAAATCAAAATCA
CCCACAATCTCACCACTTTGTGATAATAACCATTAACTTCAATATTGATGAATTTCCTTG
AATGTTTTATCTACAATATTTCTTTCATATAGTTGATATCACTCTGTATGCACAAACTTG
TATCCTTTTTCTAAATCTTAATATCATAATATTAGCATTTTCTAATGTTAGTAGATGTAC
CTGCCCG
Sequence 113
AGGTACTATGAGTTGCCACCATGTCATGCAACATAACATATTGCTTTCTAATGGAATATA
GTGAGCTTACGATTGATACTATGGACATAACCACAATAGCTAGAGCATAGTAATAGTATT
CATCAGTGCTCCACAGTATAACACTGAACAGCTGGAAAATGTAAAATGGGTTGAGAACCT
CTTTAATTAGAAGCTTAAAAACAGAAGGCACTTTTACAGCAATTTCATTTACTCCATAAA
GCAGTTTTCTGTAGGCATGCATCCCCTTTGTCAGTCCTGCACTATGCTTTTCATAAATTG
ACGTACCTGCCCG
Sequence 114
AGGTACTGCACTGGTCATTGATAAAGATGTATTCAAAGGCTCACTTAAAGACTTCGAATA
CAAGCTGATGGGAATCTGATTACTATTTTCACTGCTTGGAGCTGATCCAAATTCAGAGAG
AGAAGGTTCTGACCCAAATTCCAGAGCCCCAAACTGCACATTTAATCCTGTGACATCTGC
TGAACCAGGCATTTCCACTGCAGAAGCTGGGATCTTAGAAGCTGGGGGTATCCGCCGCTT
AGCAAGTTTGATGTGTTTGGGCTGTGGCTGGTGGACAGACACAGAGATATTTTCAATGGT
CGTGCTGGGAAGCTGCAAAAGCTTGTTCACAGTGGAGGGACTGTC
Sequence 115
CCGGGCAGGTACCTGGTTCTACAGATGGTTCTCATGCACAAAATTTCAGAACCACATTGT
AGAAAAGTAAAGCAGTATGACATGCTTTGGAAACTGCAGATAATTTAGTGCAACTGTATT
ACAGGTTACAGATAATAAGAGATGAATCTGGAAAAGAAAAGAATGTTATGGTACCT
Sequence 116
AGGTTTTTTTTCACTNNCGTATTGTTTATGGAAGAAGAGATTAGAGGACAATACAAGTAG
CCACAGCTATGATGCATGGAATACTACAGAATATGGTGAAATGCTATGTAAGGGCTAGAA
ACAATTCATTAGGTGTACCTGCCCGGGCGGCCGCCCGGNCAGGTACATGCAAATCGCCTG
TGGTAGCCATAGTCACAGGATGTGTCTTCAAGACAGAAACTTGCTTTGTGGCCCTCAGCC
ACTCTCCTNTGGGTGTTGNCATCAAGCANGTCATAGAGNCTAAACTCATCCATACTGTGG
NAATG
Sequence 117
CNGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATA
CCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAA
AAATGGGGGTGCGGAACATTAGTTAGTTGGTNGGGTAANGGCCTACCAAGACNATGATGT
TTAGCCGGGCCGAGAGGCTGTACCT
Sequence 118
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAACTTCCTTATTTCACAA
ATTTAAGTTTGGTTTATATATTTTATTGACATGGTTACTCAATGTCCACATCATTCCATC
TGCATCGTCTTCCTACAAACAGTTTTTCTTCTACTATTCGGTTATTTCTCCTTTTTTTGT
TTCCTATTTCAGAATCAAATTTATTTTACTTGCAAAGTCAGTGGAATATGGTTTGGAACC
AGTAGGGCCTCTAACTTAAGCCCAGAACCTGTCAAAGAGAAGTGCAGTATCATTGCTAAG
ACTTGAACAGTTTATCTCTCAGAATCTTCAGTTCCTTTGAATTTCTCAGCTCTTAGTGTA
ATCTGTTTTATGTGTTTGTTGNAGACTTCCATTATGGATAGATTNCCAAAATAANTTGGG
TAATCAACTGGTATTTTAGCATTCTGGGAACTAACATGTTTAAAAATCTAAGGCTCTTTT
TCATGCCAAGGAGACTGATTTTTGGCTT
Sequence 119
TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGTAATATCATGAAGCTGC
TGTCTGCACTTGTCAATATCCTGTAAGCCAGTAACAATAAAATTCAGCTTTTGGTTGAGC
CCGGCCTGGCTGCTGGGCTGGAAGTCACTGACGATGATGCCGAGCTGCCGAATGTTCTCC
ACGAACTTCTCCAGGTGCTCCTCTAGGTGGTCAAACTTCTCCGCCACCTGCCCG
Sequence 120
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAAGAAATTGCCAAGGA
CAAAGTTTTAAAAGACTTTTATGTTCATACAGTAATGACTTGTTATTTTAGTTTATTTGG

Table 1

AATAGACAATATGGCTCCTAGTCCTGGTCATATATTGAGAGTTTACGGTGGTGTTTTGCC
TTGGTCTGTTGCTTTGGACTGGCTCACAGAAAAGCCAGAACTGTTTCAACTAGCACTGAA
AGCATTCAGGTATACTCTGAAACTAATGATTGATAAAGCAAGTTTAGGTCCAATAGAAGA
CTTTAGAGAACTGATTAAGTACCTGCCCG
Sequence 121
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGATGGGTCATTTTTCTTGTATATTTTCTCT
TGATTCCCCTCCTTCATGGCTGCATATCTGGCTAGCGTGAAGAGATAGTCACTGAGTCTG
TTTAAGAACTTGGCCACGTTCGCATCGGTCTCTCCCATCTGGACAAGAGGCACCACACGT
CTCTCGGCCCGGCGGCACACGGCCCGGCAGAAATGCAGCGCCGAGCTGATCTTGCCTCCC
GAAGGCAGGATGAAGGCCGTGAGTGGTGGGAGCTGGCTGGTGTACCT
Sequence 122
GAAATAAAAATTAGCAAACAATTATTCTAGGGATATTTTCAGATTTTACTTCATTTCTTG
AAATGCGNGTGCCATATGCAATTGCATTTCTTGTGCCAAGAAACTAATAGAACTTATTTC
ACTTTACCTTTTTTTAAAATGTGAATTTAGTTATTATAGTTTCAATTTTATGGCCTTACA
GATGGCTTTTATTTTGTTTGCAGCNTGACACTGCAGTTCCTTTCATGCAAAATACCCATA
AACTGTTTTGATGGAAAAATTCATTGCCCCTTAATGGGAAAACCTCTCTAGTTTTTTCCC
ATTATAAACTANTTCCCTACTGNTACCCTGCCCCCGGGGCCGGGCNCGCTTTTCGACCCA
AACCATTNGTNGGGTNGAAGCNATTTTCCCAACGGGNGCCGCCAATTGGAAANGTCCTNG
GGGTNGCCTTGGTGCCTTNCCGAAGTCNTNCTTGGNAAATAATTTTTTTGGATANGGGAA
AGCCGGACCANAGGGAAAAAAATTT
Sequence 123
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATAAAGTT
CACCCACCCTGCACTTTGGCCCTTAGATCAATCCTAAGTAGCCATTGCCAGTAGGCCAAG
TTTAATCAGAGGACAGTGCCTACCAGTAAATACTGAATAGTTACAATAGTTATGTCCATC
CAACCAGTAGCAGATGAACAGCTAATACATCATGATGCTATGCTCTCCTAACAGGGTCCC
CTCAGATCCTCAGTGAGCACATAAAGAAAGGGAGGTCATATCCCTTACATCTCTACCAGG
TATTAACACCTAACTACTCTCTAGCCAGAGGCAATTCCCTTTATTTCCTTACTCTCGTCG
TCTTCTCTTTAGCCCAATCTCCTGACAATAGTTAAAACAAAAAGACCCCCAAAATATCTC
TTGCTAAAACAGAAGTAGTCCCTAAACTCTCTCATCTTAGACTACTGTCAGGTACCTCGG
CCGCTCTAGAACTAGGTGGATCCCCCGG
Sequence 124
CCGGGCAGGTACAAAGCACTGGAATTGGGGAAATAGCAGGGTGTTTCCCCCACAATTAGA
AGCAGTGTTGCTTTTCATTTTCCTTTTACTGATTAGCACTAAGTAGACATTAACCTATAT
GAATTTTTCAAAAACAGCATTTAGGGTCCACATTTATTTTAATTCTGATCTTCTCTAATC
TAATTGGGTGAAACTTATGGTGAAAAAATATGCATAGTTACTTTTGACATAGATTTGTTT
AAGCATGAAAGCTAGGAATTGATTAAAACCAATACATAATATTTAGTTTTGTGTTACTTA
GTTTCTTTGTAATAGTGTGTAGAATCATGTGAATTACTG
Sequence 125
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTAGTTTAGTTTATTTCTAG
TTCAAAAATAATCTGTAATTGCTGTAAGAAATGTCAACCACTTACCTAGGATGTTTGACA
ATTGGGATGAAGTCTACATATACTAAGNAATGGCAAGACAATTATTTTATTGCTCAAAAG
AAAGTCAAAAAAATTCCATATTCCCTTTGGGGAAAATTGGCAGGATTTCAAGTATGACCT
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AGTTCAATTTTCTAACATAGTCTCTATCTTCAGTTAAAGTGCATCATTGCATGTTATACA
TTACTAAAATTACACAGTGCATAATTGTTACCATGTGACTATTTAATTCAGGGTCAACTG
TCTAAAGGTCTCAGGTGTCACATTAAGGGTTATAATCTAGATGAATTGGAACAAGAAAGA
AAAGATTTCT
Sequence 126
AGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTCGNCCGCCTGACCTGGGGCAAGT
GCTTTCAACTCTCTGAACTTCGGTTCCTCATCTGCCAGTTGGCAGACGCTCAGCAAATCT
TCCTAGACTCACGGGGCGAATTGTACCTGCCCGGGCGGCGTTAGAACTAGTGGATCCCCG
N
Sequence 127
CTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCCCAACAGCATGTCCT
TCCTGGTTCTCTACCCCCACAGCACTTCTTAGAGCAGAGGCAGAGCCCAGAAGCTGTGTG
GGTCACAGGCAAGAGCTGAAGTAAGACCTGCAAGAGGCGGCAGGGAGCTAACTGTAGCAC

Table 1

GAGGACAAAAATGAACACGGTAATACTGAGGTAAATGAACACTCAATTCATGTGGAGGCT
GTAAACGTCCTGATGTCACCTCTGCCTCAAGAGCAGAAAATGTGACTGGAGTGGTTACAG
GAGGGGCCTGCCAGACCCCTGTGGGAATACTACATCTGGGACACCTCAATCAAGGAGGCA
AGAGAGAATTTCTGGCCACTGGCAAATGAAGCATACTGGCTTGCAGGGACCTTCTGATTT
CAAGTACCTGCCCGGGCGGCCGCTCTAAAACTAGGT
Sequence 128
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTTGCCGGAC
TTTCCCTTAAAGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCAGGCTGTGG
ATGAAGTGGAACCTCTACCTGAAGACTATTATACAAGACCAGTAAATTTAACAGAGGTAA
CAACCCTTCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGTCTGTGCTTCACAGCTCT
ATCCTCGCCACAAACATCTTCTGATCAAACGGTCCCTGCGCTGCCGTAAATGTGAACATA
ATTTGAGCAAGCCAGAATTTAACCCAACGTCAATCAAATTCAAAATCCAGCTGGTCGCTG
TCAATTATATTCCAGAAGTGAGAATCATGTCAATTCCC
Sequence 129
CCGCGGTGGCGGCCGCCCGGGCAGGTACATAGATCCTGATCTACTGGCAGAGCTCAGCGA
AGAACAGAAACAGATCCTGTTCTTCAAGATGAGAGAGGAACAGATCCGACGATGGAAAGA
AAGAGAAGCAGCTATGGAAAGAAAGGAGTCCCTGCCAGTGAAACCCAGACCAAAGAAAGA
GAATGGCAAATCGGTTCATTGGAAACTTGGAGCTGATAAGGAAGTCTGGGTATGGGTGAT
GGGCGAACACCATCTAGATAAACCCTATGATGTGCTCTGTAATGAAATTATTGCTGAGAG
GGCTCGGCTGAAAGCAGAACAGGAGGCAGAAGAGCCCAGAAAAACTCACTCTGAAGAATT
CACCAATAGCTTGAAAACAAAATCACAGTACCT
Sequence 130
CCGCGGTGGCGGCCGAGGTACATCATATGCCTGCTGAAGTGCTCTGACTTTAGGATGAGA
AACTCTAACATAGGCCGGAAGACAAATAAACCATAAACTGTAACAATGACTAAACAGACA
CTTGGCCCACTGTGGTGGATTTGTATAACATCTCTTCGCCAATTTATGAGCTGTTTTTAT
TTCCTGTTTAGTTCTCTTAGCCATGAGAGGTGGACTCTTTGACCTGCCCG
Sequence 131
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTGTTTGTT
TCCTAATATTTATTAACCACCTTATACCAAATGTCTTGCAAAGAAATGTTATTAAAACCT
TGAATTTTTACAAATGTAAAAAACAAAAAGTGTATTAATGTATTTGTTCAGGAAAAGCTA
CATACCGAAGGGCTTTTGTATATGAATTCTGTGGTGGGGAGACCCATTTGTAATCTATAT
GGCAGTTCCATCTGGGTTTTAAGTTTAGATTTCACCGTGTCTTANCTGCTTCATTCTATT
GGTTTATTGGAACATGTAATAAATAGGAGTAGTGATGTATTAAAACACANGNNTTCATTA
ATGNTTTATATCTTCACTAAAATTCTATAGTTATGAAACTTTTATCAATCAAGGTGTTAT
ATTTCAGTCAGAAGTGAAAA
Sequence 132
CTTAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTACCAAAATA
GTTCAAAAGAGTTCTGTATTATCCTTAACATAGTGCTTTTTTTTCCTTCCCCTTCTCTTG
GGGAAGCTACAAGACATAATCCTTCAGTGCTTAACTGGAAAGAACAGTCAATCCTAAATA
TTAAAGAATCTTATGCTGTTGAAAGTAAATGAAAAATTTCGAGTTATTTGTGGCATATTT
GAGCAACCAATATTTATTGCATTTAATCAACTGACTTTAAAAAATTACAATCTTGTTACT
TTCATTAATTTAGCATGTGAAATTTAATTAGAAATACTGGGTACCTCGGCCGCTCTAGAA
CTAG
Sequence 133
ACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANGAAATATTTTGTA
ATGTGTTGATTTTAAAAAAAATCTGTAAATAAAGTTTTAAAAAAAGAATTCAAATGGCAC
ACGCTGAAATATGTAGATATTTTGCTATTTATTTAAAGGAGTATTTTAAGAGATATTGAA
CTATCTGAAATTGACCAGTAATCAAAGTTCCAATCATCTGAATGCTTTTCCTTGAGGTAG
AATGTGAGTCTCAGAAATGACTGCATTACCTGCCCTTTTTTGCACCTTTTCTGTCTTTTT
ATTTTGCAGAACAACAACAACAACAACAAAATTGTGCCTTAGCTGTATTTTTTTTGTCTAGGGG
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AATACTGGTATCATACCAAAAACCTGCCANGGTGGTATATAGGATGCTTTCTGTCATACT
GGTGGTTTTTCAGATGCAGAATTTT
Sequence 134
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGCTTATTCACATTTTTACTAAATCCAACA
CAACTTTCACAAATGGCAAAATGATTGCCTCTTCAAAGCAATGCAGCCTAGTTTTTGGTG

Table 1

GGTTCTGGTCACTGCTTAGCTAAGTCTTTGTTGGGCAGAGTCCTGGCTCCACAGTCTCCT
TCGATGGGCTCCTCGATACACGAGGCTTCATAACATGCGCTCTTTGAAGAACCATTTCTG
ATGATCCGAGTTGGTGCAGTCTCGTAAGAGTGGAACGAAACTGTCACTCGACTCCTTCCT
CGCAGCCTGGACACATTTCTTGGACTGTTCGTGAAATAAAAGATCCATCCTCCTGCAAGA
TGAACTTCTGATTCTCTGGGGGCA
Sequence 135
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGCCTCTTTGAGTATGA
ATGAACTTGGAAGAATAAAGCCTTCCAGTTGGATGAAAGCACATCCAGCCTTTTGTGAGT
GACAGCTTTGTATATAATCTTATGCAGAGCTGATATGGATTCCCTCCAGGCAGCTCAAAT
CTGGAAGTTGTAAATGAATGGCTATGCCACCTTGGAGTATCACCATAATACATCTCTGCT
TTAGAGCTGATATACAGATGTGAAACGATCGAACAACATGATTTCTCATTCTAGTGCTCC
TTAGAAAGGAGTTCTGATAAGCCCCAAAGCAGACCTGGGTTGGAATCGTGGTTATTATTC
AAGTACCTGCCCGGGCGGCCGCTCTAGAAACTGGTG
Sequence 136
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGCTATATCCG
CCAGTTGATGACTGTCCATCTCTAGCCCCTCTAACCATGCTATGCACCCAGTGAGTGCAG
AATGATTACTAGTAATTGATGTTGACTTTACAATTCTATGACATGTAATACAGGATGCCG
AGGCACTTTTAAAATTCCACCTAACATGTTCTGGCACTGGAAAATCTTACTTGAGATTTT
AATACTGGTTAATATAGGAAAAATTATGCTTAAGCACCACTAACTTAAAAGTGTAATTTC
ATTTTCTTGAATTTAGGTAAAAGCAAAATTCTCAAAATTCTATTATGGCACATGGTTTCA
CAGTTTCAACCT
Sequence 137
CCGCGGTGGCGGCCGAGGTACATACACATACTCTAGTTATGAGCACCTAGGGTCTTTCCC
ATCACTCTTGCAAAAGTGTGTGTGNGTGTGTGTGTGTATACATACACTCACACATACATA
TGTATACACAGACATCTATATNCANANATAATGTATATGTGNGTCTAATGTATATATAAT
ATATACACATAGACATACACACAATGCACATATCATAGCTCAACCTNATCTAAACATCTA
GAGTNTGGAGAACGTGCTGGCCAACAGAATACATGTGCATGTGGATGTCATGTGACATGC
ACTAACCAACCATCCNGAGGNNAAACTGTTGGGAGGAGGAAACTGCCCACAATNTTTGAA
AATCCAGGCCTACCAGGCCATTATTT
Sequence 138
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGNGCCCNTTTTCAGA
CAGTTNTNGATTCGCTCTAGACTTTTTTTTTTTTTTTAATAGGGAGGGAAAAAATTTGATA
ATTTTCTTTTTTCTACATGCACTTAAGACTAAAACACAGGTTTGGATTAATTTTATTTGC
TTCCTTTTTCCGCTTTTCTTCCCGCAGAGCCTGATGGGAGAATGTCCAGGGCAGGGAAAC
CACATTTTTTGTAGGTGATAACTCAATGAAAATTGGTGCTTATTTTTTACACTTCTCTCT
TGTGGCTCTCTTGNGGTGCTATCTGTTTTAAGGTCTCCTTGAAGGCGCACTGGGGTCCCT
GGCCATGCCTCGTTCTCCCTGCTTTCTTTA
Sequence 139
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTGCTATAGACGCACAAAC
GACCGCGAGCCACAAATCAAGCACACATATCAAAAAACAAATGAGCTCTTATTTTGTAAA
CTCATTTTGCGGTCGCTATCCAAATGGCCCGGACTACCAGTTGCATAATTATGGAGATCA
TAGTTCCGTGAGCGAGCAATTCAGGGACTCGGCGAGCATGCACTCCGGCAGGTACCTGCC
CG
Sequence 140
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGATAGAACTAAGGAAATAGTGGTTTTGAG
TGAAGGGAAAGGAAACCCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTGC
CCCGGCCCCTCTCTGAGCCCTGTAGCATCTGTGATAGCTTNTGTCCCTTCATCGGTTCAT
GTCACAGGGATTTTCTTTCCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCA
CATGCCCTGGC
Sequence 141
GACTACTATAGGGCGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATTGTTCTCA
AGAGGGCCATCAGAAGGAAGCCAAAGAGTTCACAGCCTCAGCACCAACAACTCAACATGG
TCATCATGTTTTCTATATGGTTTTTCCAGCTAGCAGTACCTGCCCG
Sequence 142
CCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGAGAAGCATGGGGCAGTAGAAAGAGCATG
TGGGCTTTAGAGTTCAAACCAAGTCAGGCTCAAACATAGTTCTGTGATAAGCCCTGAGCA

Table 1

AGTTACCCGGGTCTTCCATTTCCCCCTTCTGGAGAAGTCCTTTGGAGGATGAGTCCTTCT
GGAGGATGAGTCCTTCTGGAGGATGAAGTCCTTCTGGAGGATGAGTTCGTTGTAAGAATA
AAATGAGAATGTAAGACACCTAGAGGATGCCCGAGTAAAAAATGACAGTTGCTAGTAGTA
GTAATTTGTAGGGCTCATTATCTAGAATAATTTTGTTTGACGTTACTAATTAAAATGAAC
TCTTAAAGAAAAGCAGTGTATTTAGACTCTTGTAGTTAAGAAAAATTACACCACAGAGCC
CTTTTTACTTTTTAAATTCATTTTTACATTTTAAATTCATTGCATGTATTCATTATG
Sequence 143
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATATTAAGTGGT
TCTATAAAAGCTATTCACAAGTTCTACTGTGATGGACATCCTCATCATAGACAAACCTCC
CCTGTTTTATCCTCAATTTCTAGTTACAGAAATTTGGTGATGCTTATTTTTGCCAATTTT
ATGTCAAAATAAGNTAAAACTTCCCTCCTGTTCACCTCTTGGGTCTCTATCCTGTGTAAC
CTNTGGTGTAGTATTTGCCCATAGGCAACCAGAGCCACTTCCTCTGAACCCAACATCTNC
TGGGGACCTTCGCAGCANGAGGAAAGCACTGAGACAATAGCTTGCTAAGCAGGGGCCCAG
NGGTGTCTCAAAGAAACCATGGNTGTNCTCGCCACTTCCCAGGGNGGGTGANGNGAGCTC
GGGAACATAACGATGGTTTTG
Sequence 144
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGATTATG
CTTACCTCAGGTTTCTTTAGTGTGCTTGAATGCCCTTCTTTCCATATAACACTTATCTTC
TTCTTAATTCGGCAATGGAATATCTTTTAAGTTTTAAAAAAACTGGAATAATTATATCTA
TCTTTTTTGCCGTTTATATTTAGGGGTTTTTGTTGATAAAATCAAGTCTTGGTTGTGGCT
TGCTGAATTAAATATTTATGAGTGGTGCATTTTTAAGTATAGTGAACAAGACACCATATT
AAGTACCTCGGCCGCTCTAGAACTAGN
Sequence 145
CCGCGGTGGCGGCCGAGGTACCTGCCGGAGTGCATGCTCGCCGAGTCCCTGAATTGCTCG
CTCACGGAACTATGATCTCCATAATTATGCAACTGGTAGTCCGGGCCATTTGGATAGCGA
CCGCAAAATGAGTTTACAAAATAAGAGCTCATTTGTTTTTTGATATGTGTGCTTGATTTG
TGGCTCGCGGTCGTTTGTGCGTCTATAGCACCCTTGCACAATTTATGATGAATTATGGAA
ATGACTGGGACATGTACCTGCCCG
Sequence 146
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCTCATCAATGT
CTCTAAAACTAGGTCTTGAATCTAAAATGGAATTATACATAGAACTATTACATGAAGCAG
TTCTTTCACTACAATCATTTTTAGCCCCCCAGTGACCAATCTCCTCAGGTAAACAATGTC
TAATGACTGATGATTGTTTACTGTATGCCAATTACTGCTAAATCCCTCATATAGATTATC
TCATCTATGAAGACACAAGGATTATTAATAACCCCACTTCAGAGATAAACAGACACAGGT
TAACACATCTCGCTAACACCTNTTGTAAGTGAAAAACCAAGTTCAGAGCCCAAAAAGTT
Sequence 147
CCGCGGTGGCGGCCGAGGTCTGTATCTCATGTTTGCTGATGGCAGTTTGTGGGAGAGGGA
ACCATTTCAGCAATGATTTCAGTTAGCAAATAGCTTTGCAGCTTTAACAGAACTCTCTCT
GCTTGCTTTTTTATTTCCTGGGTTTTCTGGCCAGGCGCGGTGGCTCACGCCTGTAATCCC
AGCACTTTGGGAGTCTGAGGTGGACAGATCACTTGAAACCAGGAAGCCAGGAGTTCGAGA
CCAGCCTGGCCAACATGGTGAAACCCTGTCTCCACTTAAAAAAAAAAAAAAAAAAATTAGC
CTGTAATTCCAACTACTCGAGAGGCTGAGGCACAGGAATCGCTTGAACTTGAGAAGCAGA
GGTTGCAGTGAGCCAAGATCGCACCACTGTGCTCCAGCCTGGGCAACAGAGCAAGACTCC
ATCTCAAAAAATAAAAATAAATAAAAAATAAAAAAATA
Sequence 148
CCGCGGTGGCGGCCGAGGTACACTAAGTTTGCAACATTTATTGAGATCTAAGTCTGTCTT
GCCTTCATTTCTCTTTTTATCTCCCCCTTGCCCTCATTCTTGAACAGCTGGAGGAATACA
TTTTATTCTGTCCATGAAGCATACACTATGAAATTCAAGTGCTTAAAAATACTTCTATGA
CTCTCTGCTATCCCACTGTATAGATCCACAGGGAGCAAACACTTAGAAATGATAGAGAAC
TGAAGGAGATCAATGGTTTAACAGTTATCCATGCCAAGTCCCATTGTCAGAAATATTCTT
ATTACTCAGTCAAACACTCTTTGAGCTTCCCTTCCTAAAGGTAACCATTCCAGTGAATAG
ATGTGCCCTTTTATAAGGAAACTTCTGATGTTTATTAAAAAAAACTGGCCTTTTGATAAG
AGGGAACTTAATTTGGGAATTTGGTGNGTTGNAATGGCATTTAATT
Sequence 149
CCGCGGTGGCGGCCGAGGTACAGAAGTTAGAATTTTTGACTCCAGGCAGCAGTTTGCTCA
GTGATCTTGAACAAGTTATCCAATTGCCTCTACATTTGCATCAGTTTCTCTAGCTGCAAA

Table 1

ATGGGGATAATACTATATACCTACCTCACAGTGGGAGGGCAGGAGATTTTGAGGCCCTGA
GGTTTTAGGTGGGCTGTGAGGGCCAACGCTTGACACAAAGTCCATGGGTTATTATTCAAG
AATGCACAGGCCCATCGGCCTTTTAGAAAGACAAGACAGGGAGTGCTTGTTTGATATTTC
AAGGAATAAAGCCGGAGCTCCTGAATTGTAGTCCACCTTAAAAGAGAGACCTGTATTGGA
GAATATTTTATTTTTTTGGCAAATTTGATCTTACCCTTTACCAGTTCTATAATTTGGTTA
AAAGC
Sequence 150
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGGGTTTGAACGTGAA
CGTATCTTTCTTGGGAGATGCGATTCAAGCCACAAGAGCATTTACTTCTACTGTAAGAAG
AAAACAAATCGAGTTTAAATCCTATGTATCTTTTGTTTCCAAACCATGCTGCAGAAACTA
AAACTGAACTGCACTATATATATATTTCTAGGTGTCTGAAGTTTTGAAAGAGCTTCCCAAAA
CTTTAAGGTAGATCCCTAGTTTCATCATAAATGTAACTAAAAGAATTGGCCTAAATGATT
TCAAAGATCTCCACCAGCTCCTGGTTAAAAACTGCAAAGCTATGATGTTGTGGGCTTGTA
AAAAAAACAAAATACACACACACACACACACACACACACACACAAACAAAACTGCAAAGCAC
AGTTGGTGTGCACCTGTAATCCCAGCTACTTGGGAAGCTGAGGGGAAAGGGTCACTTGG
Sequence 151
CCGCGGTGGCGGCCGAGGTACTCAGGTGACTTTCTGGTTAAAAATATTGAAGACGGATGA
CAACTGGGCTTTTTTTACTTTGACAACTGAGACAAAATGACAAATTGTCAGTGTTCAGAG
ATCCAGACCAACTTCTCAAAAAAATATGTTTACCCCTGATATCATCATTATTTTAGCCCA
ACTGTGCCTTTTTGGGGGGATCACAACTCATTACTGGCTTTTTTGTTTTAAAGNTAAAAA
TTTTTTGGGCCCTTAAAGCNAGGGGGTTTAGGGNANNATAACNCCCCCTTNTNNNNGANN
GGGGTTNGAAAAACCCAACCCCCCTTTTTTNGGTCCNCGGGGNGGCCCAANNCCCTTTTT
TNTTTCNTTAANGGGGGTTTCCCCCGGGGGGGGGGGGGCCTNTTTTNTNGGNNGNNGNTA
AAAAAAAAAAA
Sequence 152
CCGCGGTGGCGGCCGCCCGGGCAGGTACATTATTTTGATGGACGAAAACGGATGATCTTG
AGCACTATTTCATGGATGGGAGGAAAAAATCCATTTTTGGGGATTGCTTACATCGCTGTT
GGATCCATCTCCTTCCTTCTGGGAGTTGTACCT
Sequence 153
CCGGGCAGGTACCAATTAGAATGTCTTCAGTTATTAGTAATAGAGCATCCTAAATCAACT
GGCTTAAAAATAAGTTTAGTCTCTCACAAAAGAAACAGTCCAAAGGAGGAGTGGCTACAA
GGCTGCTTGGTTTGGTGGCTCAAAGACATCATCCAGGTCTCAGGGTCTTTCAGTATTTCT
GCTCAGGCCATGATTAAACTATAATCCATTGCTGAAAGATGGTTACCAGGCACCACATCC
AGACAAGGTACCT
Sequence 154
CCGCGGTGGCGGCCGCCCGGGCAGGTACCACGGTTGTAAAGCAATAAGATTTGAGATGAA
CACTATTGAAACTTCGCTTTTTGCTAAAAAATAGCAAGTTGAATAGTAATCAAAAAACAT
AGAAAGATTTTAGTTCAAAATGATTGCTCCTTTCTCTACCTGGACTTTTAAAAAATCAAT
TGTCATCTAATATGAGTTTATTTGTCTATAGACACAAGTATCAATGTCTAAAAAAAATCA
TGACTTTAAACTTCCACCGATGAGGCAGGTAGGAGATAAAGATGAATTCTGAACTGTTAC
TAAAAGTACGAACCAGCTCGTTATTAGATGCATTGTAGACAACATCGATGATCCTTGTTT
TAACGAGTACCT
Sequence 155
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGCTTA
TTCACATTTTTACTAAATCCAACACAACNTTCACANATGGNAAAATGATTGCCTCTTCAA
AGCAATGCAGCCTAGTTTTTGGTGGGTTCTGGTCACTGCTTAGCTAAGTCTTTGTTGGGC
AGAGTCCTGGCTCCACAGTCTCCTTCGATGGGCTCCTTTGATACACGANGCTTTATAACA
TGCCCTTTTTTGAAAAAACCATTTNTGATGATCCCNGTTNGGGCCCCNCTNTTAAAAAAN
GGGAAAAAAAANTTGNGGNTTNNATTNNTTTTTTTGGGNGGCNGGGAAAAATTTTTTTGG
GNNGGGNNGGGAAAAAAAAAAAACCCCCNCNCCCNGNANAAAAAAATTTTTTTTTTTTT
TTNGGGGGGGGTTTTTTTNAAAAAAAAAAAAAAAAAAAAGNNNANNTNCTTTTTTTTTTC
CNNNNAAAAAAAAAAANNNNNNNNNNNNGGGGGGGG
Sequence 156
CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCGCGATGCCCCC
GAGTGGCCTCTGCCAGGCTGTCCCGGGCCTCTCGGCTTCCCGGGGACCCAGTGGTGTAGG
CACGGACCATGTTGTAGGCACCATCCCGGAGACGCCGCTGGACACAGTATGCCTCATACA

Table 1

GCTCATCGATCTTGCTGGCATGGAACTCCAGTCGTCGCAGGAAGCGTTCAATGGACTTGA
CTTGCTTGTCCAGATCATACAGGAAGCCCAAGCGGGAATTCCTCTTGGACTCCCTTATCT
GCCCCTGGAGTTTCTCTTGCTCCTGCTGGTGCACTTCCAAGTAGGCCGTCAGGCCCCGCT
TCAGCGCCCGTGTACCTGCCCG
Sequence 157
CCGCGGTGGCGGCCGCCCGGGCAGGTGGCGGAGAAGTTTGACCACCTAGAGGAGCACCTG
GAGAAGTTCGTGGAGAACATTCGGCAGCTCGGCATCATCGTCAGTGACTTCCAGCCCAGC
AGCCAGGCCGGGCTCAACCAAAAGCTGAATTTTATTGTTACTGGCTTACAGGATATTGAC
AAGTGCAGACAGCAGCTTCATGATATTACTGTACCT
Sequence 158
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATNNAAATNATACGT
TTTAATAAAATACATCTTTAGATCAAAGCTGAAAGAAGACATCAGTAGTAGATCAGAGNA
TTCCATTT
Sequence 159
ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTTGGGTCTGAAAG
TCGATGAAGGACGCGATTACCTGCGATAAGCTTCGTGGAGTTGGAAATAAACTATGATAC
GGAGATTTCCGAATGGGGTAACCTAACTGAGCAAACCTCAGTTGCATTTTGATGAATCCA
TAGTCAAATTAGCGAGACACNGTTGCGAATTGAAACATNTTAGTAGCACCGGGAAAAAAA
AAAAA
Sequence 160
CCGCGGTGGCGGCCGCCCGGGCAGGTACTATCATTTGCACACAGCAGATCAATAGGTGTC
AGTCACCAGCTTAAGTTACACTTGTCAATATTCAAACTTGAATAAAATAAACACACATCA
CAACAGCGACACTTTGCACTATCAACAATGAAGCTTGCCCTCAACAATTATGACGTTACT
GGTTTTAGTAACATAAAAATACATTGCTGGTTGACAGGAAGGATAAAAATGACATCAAGA
ATCTCAAAAAGTTATGTTGAGGTGCCGGTCACCACATTTAGGCACTCAGGAATTAAAAAT
CA
Sequence 161
CACTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACATACATTTCTTAG
GGACACAGNATACTGACCACATNACCACCCTNTTCTTCCAGTGCTGNGNGGACCATCTGG
CTGCCTTTTTTTCTCCAAAAGATGCAATATTCAGACTGACTGACCCCCTGCCTTATTTCA
CCAAAGACACGATGCATAGTCACCCCGGCCTTGTTTCTCCAATGGCCGCGATACACTAGT
GATCATGTTCAGCCCTGCTTNCACCTGCATAGAATCTTTTCTTCTCAGACAGGGACAGTG
CGGCCTCAACATCTCCTGGAGTCTAGAAGCTGTTTCCTTTCCCCTCCTTCCTCCTCTTGC
TCTAGCCTTAATACTGGCCTTTTCCCTCCCTGCCCCAAGTG
Sequence 162
CTTAGGGCAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACATCGTCTTCGTCTTCCTCC
TGGGCGCCATCTGCACTCGAGAGGCCCTTCGCTATGACTTCCTGATAGCGGAAAAGGTAT
CCCTCATGGGCTTCCTGTTCCTTTTGGGCTTATACATCTCGTCCCTGGCTTCCTGCATGG
GAGGACTTTATGGAGCTCCCCGCATCCTGCAGTGCATTGCCCAGGAGAAAGTGATCCCTG
CACTTGCCTGTCTGGGACAAGGGAAGGGGCCAAACAAAACACCCGTGGCTGCCATCTGCC
TGACCAGCTTGGTGACCATGGCCTTTGTTTTTGTGGGTCAAGTGAAACGTTCTGGCCCCC
ATCGTCACCATCAACTTCATGCTGACAATACGTTGCAGTGGACTACTCTTACTTCTCCCT
GTCCATGTGTTCCTGCAGCCTGACCCCGGTGCCTGAGCCGGTGCTCAGGGAGGGCG
Sequence 163
CCGCGGTGGCGGCCGAGGTACCACAGTCTTGCACATAAGTGCAGATTTGGCTCAAGTAAA
GAGAATTTCCTCAACACTAACTTCACTGGGATAATCAGCAGCGTAACTACCCTAAAAGCA
TATCACTAGCCAAAGAGGGAAATATCTGTTCTTCTTACTGTGCCTATATTAAGACTAGTA
CCTGCCCG
Sequence 164
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCTACAAGCTAGAGTGG
TAAATTTCAGGAAAGCAGAAGTTAAAGGCAAAATTGTAAATCAGTCGAGATCGGGTGCCT
TCAGGGTGGTATGGCTGTATACCAAAATTGTAAATCACTACATGAAGCTTATATATTGGT
TTGGCCTGAAAGGTGAAGTGGGGTAGGCAGGGGGCGGGCTTACAGGTTATGGNGGATTCA
AAGACTCCCTGATTTGTGATTGGNTAAGGAAGCAAAGCTTTGTCTAAAAACTTGGGGTCC
GCANAAAGGAACATTAAGGTCTGGCCA
Sequence 165

Table 1

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAATATGGA
AGAGCAGTTTGTAATATGAATACATTTTCTCTAGACGAGATCACAGTTTTATTTTGTAAA
TATTACATTTAAGTATATATATACACACATATATGTACCT
Sequence 166
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAACCTCAGGG
TTATTTACGAAGCCAAAGGACTTTGCTATATCAAGTAGTTCATTTCTTATCTAAGACCAA
CTATAGGTATGATGCTACTGTATTCAGGCAATGCCGACTGGATTGGAACATGCTAATTTA
AGGTGAGTTGGTACCT
Sequence 167
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTTTTGCTCA
AAATATATGAAAGGAAAGATAATCAGTTCTTAAAGTTTGGTATGCTAAATAAGCACCCAG
GGAACTTACCTGCTCCACCTCACCCCAGAAATTGATTATTCAGGTCTGGAATATGGCTCA
AGGATTCTTAATTTTCAACCAACACAATATAGAATCCTGTCAGTTATCCTTGGATCATTT
GCTAAGTGATCTTGCAAAATCAAAACTCCTTTGAGACTATTTCATTTTCAGAAATATTTT
AAAACTTGTTCAGAAACATCTTAAAACTTGTTAGCTTATAGGAAAAAGTNCNTNGGCCGT
TTNANACNNAGNNGGANTCCCCCGGCCTGNAGGATTTCANTTNAGNTTNATGANTNCGGC
CACCTNGNGGGGGGGGCC
Sequence 168
TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACACCCATCAA
GCCACCAGCCTGGCCAAACGGGCATCTTTCTGTCCAGAGCTCATCAATAGGAACTGGGCA
ACCAGGTGGGGAGCCGCCAGGGGAGCTTGGAGAGGGCAGAGTAGGAGCCTCCATGAACCA
AGTCAGGCTGGAAGGGGTCAGCCCTCGTGGTCCGTCAGCGTGCGGCGGAGTCCCTGTGCC
TAAGTAGCAGAGCGGTAGTCATTGAAACAGGCCGGGATGCCAGCAAGAGGGAGGCGAGCA
TGCAGTGAGCGATAGGTACCT
Sequence 169
CCGCGGTGGCGGCCGAGGTACCTTGAAGCAATATACTCAATGAGCTCTAAATCTCACATT
CACTAGTGATCTGCAAGTGAAGCTGAATAAATATATTCTCTTTGTTCAGTCATGGAAACT
CAACATTAGAAATGACATGTGGGAATAGATCACCTTCTCTCTAGACTAATATCCCATTTC
TGACAGTGGTCTCCATGGCCCATTGGGGCTTATAAAGTAGCTGCCTTCTGTGACATTCTG
CTTGAAGACAAAGGCTTTGCCCAAACATAACTCCTTTTAAAAAAGCACAACTTGTTTAGG
CACACAGAGGTTAAGTGACTTACACAAATCCACCCAGGATTGGTGATTGGCACCGGTCTA
ATCTACTGAAAAATATAAGGCCAGGCAATTATATAGATATCTTTTAACAAGTTAGTAAAA
TAGTGGGGACTTTTCTGGCTAAAAATTGGTAATTAAATGGGNATGGTTACCTCTGGTTAT
AACTAAACAAACAAA
Sequence 170
TATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGAACCATGCTCGTTATTA
GATGCATTGTAGACAACATCGATGATCCTTGTTTTACGAGTACCTGCCCG
Sequence 171
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTAAATAATAACAGAAAC
CAAGAGTTTGTTTCTAGTAGTAGAAGTATAAGTGGAGAGAGTGCTACATCAGAGAGTGAA
TTTACCTTAGGGGGTGACGACAGTGGTGTGTCAATGAACCCAGCTAGGAGTGCACTTGCA
CTGTTGGCCATGGCCCAATCTGGGGATGCAGTCAGTGTCAAGATTGAAGAAGAAAACCAA
GATTTAATGCATTTTAACCTTCAAAAGAAAAGAGCTAAAGGAAAAGGGCAAGTTAAAGAG
GAAGACAACAGTAATCAGAAACAGCTGAAAAGACCTGCCCAAGGCAAACGCCAGAATCCA
AGGGGAACAGATATTTACTTACCGTATACTCCTCCTTCCTCAGAAAGCTGCCATGATGGT
TATCAGCATCAAGAAAAAATGAGACA
Sequence 172
CCGCGGTGGCGGCCGAGGTACCAACTCACCTTAAATTAGCATGTTCCAATCCAGTCGGCA
TTGCCTGAATACAGTAGCATCATACCTATAGTTGGTCTTAGATAAGAAATGAACTACTTG
ATATAGCAAAGTCCTTTGGCTTCGTAAATAACCCTGAGGTTTTGTACCTGCCCG
Sequence 173
CCGCGGTGGCGGCCGAGGTACCAACTCACCTTAAATTAGCATGTTCCAATCCAGTCGGCA
TTGCCTGAATACAGTAGCATCATACCTATAGTTGGTCTTAGATAAGAAATGAACTACTTG
ATATAGCAAAGTCCTTTGGCTTCGTAAATAACCCTGAGGTTTTGTACCTGCCCG
Sequence 174
CCGGGCAGGGTACCAGTGCCCCTTTTCAGACAGTTTTTGATTCGCTCTAGACTTTTTTTT

Table 1

TTTTTAATAGGGAGGGAAAAAATTTGATAATTTTCTTTTTTCTACATGCACTTAAGACTA
AAACACAGGTTTGGATTAATTTTATTTGCTTCCTTTTTCCGCTTTTCTTCCCGCAGAGCC
TGATGGGAGAATGTCCAGGGCAGGGAAACCACATTTTTTGTAGGTGATAACTCAATGAAA
ATTGGTGCTTATTTTTTACACTTCTCTCTTGNGGCTCTCTTNGTGGTGCTATCTGTTTTA
AAGGGCCTCTTGAAGGCGCACTTGGGGTCCCTGGCCATGCCTNGTTCTCCCTGCTTTCTT
TAATCCTGGTATTGCCTCCACAAGGTCTGTTGCCAAGGACTCTTAAAGATCAATGGCACG
TCACTTTTCCTTTCC
Sequence 175
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTGG
ATGTGTTTTCTCACCAAGATGAGCAAAGAAAGGTTTGCACAGAGGAGTGTGAATGTGTGT
TTGTTGCTGGCTGAATGGCAATAGATGTCTAAGGTGGATTCAGTGTCTGGCACACTGAGA
CACCTCCAAGAAGGAGATTGATGCATCAGGTTCAGTTTAACCTGGAATATCTGACTACCC
CTGAATCCACCCAGAAAGGGGGCCCAACACCCTTGTCCATTTATGGGGTATTTTTTTTCG
AAGTTATTAAGCATATTCCTTTTCCACGAACCTCTTCTGTACCTCGGCCGCTCTAGAACT
AGTGGA
Sequence 176
CTATAGGGCGAATTTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGCGTCGCAA
TTCAGGATGGCTCTCTTGGATCTTAGCTTGCAACTCGGCCTCCAAGCTTGTCACAGACAT
GGAACTTTTCTGAGGAAACAGGGCACAACACAGGGGTGTAGCAAACACCAAACAGAAGCC
AACTAACCCAACTTGAATGGGTGCACTCATCCATGGGAACCTCTTCAAAAAGGCTTTCTT
TTCCAAAGTGTTCATAATGAATGGAGGGATGGCCATGCCAGGGGCTGCCATGAGAATCCT
GGACACGACAACTTGCGTGATGGCTTGTTTCGCAAGCGTTCGCCGACTCCCCCAAGCGGT
TCCCATTCTCATTCCCGTGACGGGGAAT
Sequence 177
ACTTAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGNGGTTACAAGCTATTATATATTT
TCATAATATAGAACTTTAAAGTATAGTAATCAACAGTGGCAAAATATTTCTGTCTCTGAC
ATTATTATTTGTGAGATCCAACCTGTAATTGAGATCAGAGAAAACAGTATGGAAAAACAA
ATCCATGAGAACAGGATAAAAATATCATGAACAGCAAAATATGTCTGAGTATTTAAAACT
GTATAGAAAAAATAAATTAGATGAACAATTGTGTAAATATAAATTAAAAAAGATGACATT
CTTAATAAATAAAGTTTACTATTTACATTTTTATATATTGCCAAAAGATTT
Sequence 178
CCGCGGTGGCGGCCGNGGTACACGAAGGTTAGAATTTTTGACTCCAGGCAGCAGTTTGCT
CAGTGATCTTGAACAAGTTATCCAATTGCCTCTACATTTGCATCAGTTTCTCTAGCTGCA
AAATGGGGATAATACTATATACCTACCTCACAGNGGGAGGGCAGGAGATTTTGAGGCCCT
GAGGTTTTAGGTGGGCTGTGAGGGCCAACGCTTGACACAAAGTCCAT
Sequence 179
TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGGTACTTCCTGAGGAGTGAAGCTGTTT
TCTGCTACCCTTTCCTGTCTGGTGGCTCANGAAGTTCAGTGTCTCGGTGTCTGATGCAGT
GAATACCTGGGATTACAGTCTGGCATGCTCATTCCTTAGAACACAGGTTTATTCTCAGGA
TGATTTATAGCAAGTGATTCTGGTTTCCAGTCTGGTTGAAAAAAGTGAATATTGAATGTC
CGGGCCCAGTTTTTAAANNACTCTTTTTTTNTTGGGAAAAAAGCGGGGNAAAAACCGGCC
CTTGGGGCCCCCTTNNNNTANGGGGNNGGGGGNCCCCCCCCCCCTTTTNAAAAAANNANG
GGNCCCCCCCCCGGGNNNGGGNGGANAANTTNAAAANAAAAGNTTTTTTCCCCCCCCCCC
CCGGGGGGGGGGGGGNCCCCCCCCCCCCNCNTTTTTTTTTTTTTAAAANANNNGGGGNGC
CCCCCCCCCCCCCCCANA
Sequence 180
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTTTATAGACT
CAAAACATGATGAAAATTCATTTCATTGTCTTCACTGAATAGACTTAACCTTGACAGTAA
GCTTAAAGCATTAGTGTCATTTAATTACATGTCTGAGGAATTTATGCTAACTAGATTTTG
GGCTTTTGCAGCGAATTTTAGTCGGGGCCTCATTCCTGAGCCCAAGTGACCCTTTCACCT
CAGCTTCCCAAGTAGCTGGGATTACAGGTGCACACCAACTGTGCTTTGCAGTTTTGTTTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTATTTTTTGGTTTTTTTTTACAAGCCCACAACAT
CATAGCTTTTGGCAGTTTTTAACCAGGAGCTGGTGGGAGGATCTTTGAAATCATTTAGGC
CAATTCTTTTAGNTACATTTATGATGAAACTANGGGATCTACCTTNAAGGTTTTGGGG
Sequence 181
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCATGG

Table 1

AAAGTATTAAAGATCTTTAAAAAAATCGAATGCTGTCATGTCAAAGTGAGGCATGAAAAG
TATTATTAATGTGGCTCCATCGATTTGGGGGTTCCAATCTGAGGAGGGCTTTTTATTTAA
TGTTTTAATGAATCAAAATATCTTCTTAGAATGTCTCTGAAAATGGCATCTCATTACCTT
A
Sequence 182
CACTNCTATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATAA
AGTTCACCCACCCTGCACTTTGGCCCTTAGATCAATCCTAAGTAGCCATTGCCAGTAGGC
CAAGTTTAATCAGAGGACAGTGCCTACCAGTAAATACTGAATAGTTACAATAGTTATGTC
CATCCAACCAGTAGCAGATGAACAGCTAATACATCATGATGCTATGCTCTCCTAACAGGG
TCCCCTCAGATCCTCAGTGAGCACATAAAGAAAGGGAGGTCATATCCCTTACATTCTCTA
CCAGGGATTAACACCTAACTACTTCTCTAAGCCAGAGGCAATTCCCTTTATTTCCTTACT
CTCGGTCGNNCTTNTTTTTAACCCAAATCTTCTGACCAATAGGGTAAAAACAAAA
Sequence 183
TCACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACACACCGGCA
TGTTTATACACAGGGAGTGTATGGTTCCTGTAAGCACTAAGTTAGCTGTTTTCATTTAAT
GACCTGTGGTTTAACCCTTTTGATCACTACCACCATTATCAGCACCAGACTGAGCAGCTA
TATCCTTTTATTAATCATGGTCATTCATTCATTCATTCACAAAATATTTATGATGTATTT
ACTCTGCGCCAGGTCCCATGCCAAGCACTGGGGACACAGTTATGGCAAAGTAGACAAAGC
ATTTGTTCATTTGGAGCTTAGAGTCCAGGAGGAATACATTAGATAATGACACAATCAAAT
ATTAAATTGCAAGGATGTCACACGTGNTGATGAAGGGTAGAGTAGGAGAGACCATGANTA
TTGTGGTAACAGGAGGACCCAGCATTATTCTAGTGCTGTACCTGGCCCGGGCGGCCCGCT
TAAAACTAGGNNGGGATCCCCNG
Sequence 184
CACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCT
ACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATACCGGATATAGTTATTTATC
GCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGGGGGTGCGGAACAT
TAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCT
GTACCT
Sequence 185
CCGCGGTGGCGGCCGANGGNTCNNNTNCNTNNTTNNTTATTTNTGGGANGNTGNNTNTTT
TTATTCCTAGATNTGGAGGAANCATATTTNTNTNTTNTTATAAAACTGATTGTAATAATT
CTTTCCTATCAAAATCTCCATAGGTCAAAATATTGNNGGAATACTAAAATTTGCAACCTT
GTTTACTTTAAAAGGTTGCCACTTTCAGTGCAGAATACTACCGGCATCTTGTTACTGCAA
TAGTTGGAAATAAAATGTGAAAATTAGCAGAAAAAAAAAAAAAAAAAAAAAAAAAACCCT

Sequence 186
TCACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCTCTGATAAAGTTCT
TGAGATCCTGTATGTTCTTCAAGACCTTTATCAGAGTTTATGTGAATGCGGCTATTTTCT
GTTTTAGGACAAACAGGACTAAAAAGTTCAAGGGAATATGCTTGGTTTTGTCCACTTTCA
TATGCTTCTGTAAAACCATCAAGCTGAATCGAATTCTCTTCAGGTATTCTTATCTCCCCG
TAACTTGCCTTTGGTTCAGTCTCCATGTTTACATTCCCTTTATTTACAGGACTCCGCCTT
TTATCTTTCTTTTGAGCTAAAAAAGCAACCTGGCTGGGAGGTAATTATACTGAGAAATTC
TGTATCAGTTGATATTTTAAGGTCTGAGACCTTCCTAACTGCTGCTTCAGACCTTGACTT
ATCTACCTGCGT
Sequence 187
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACATGGGTGTTTTGATCTCT
GTTCTTTCATACTACATTTGAACAGGGCAAAATGAACTAACTGCCATGTAGGCTAAGAAA
GAAATGCTAACCTGTGGAAAGTTGGTTTTGTAAAATTCCATGGATCTTGCTGGAGAAGCA
TCCAAGGAACTTCATGCTTGATTTGACCACGGACAGCCTCCACCTTGAGCACTATTCTAA
GGAGCAAATACCTTAGCTCCCTTGAGCTGGTTTTCTCTGATGGCACTTTTGAGCTNCTAA
GCTGCCAGCCTTCCCTTCTTTTCTGGGNGCTCAGGGCATGCTTATTANCAGCTGGGTTGG
TATTGGAGTTGGCAGACAGGGATGTTCAACTTAATGAAAAAATACAGNTTAAGGGNCNTT
GCCACAACACCCTGCCGTAAGTTACTTGGCTTGNGGGGNGGGGCATNTTAAAGTTAAAGG
GNACNGGGNTTTAATNCCCTATCCCTTTTTTC
Sequence 188
CCGCGGTGGCGGCCGAGGTACATTTCTAAATAAATATCTTTGATCTATAACCCTTGAAAA

Table 1

TATTACAGTTTATGGTGACATGATAGAGACAAGTCAAACAGTATTATAAGTGAAAATGAA
ACATCAATTTAAAATGAACAAGTGTAAAAACACGCGGAACTGAAATTATAGAAAATCAAA
ACACTAAATACACAGTAATTAAATATCTAGCACTGGAATCACCAAATGCATGCCGCAGTA
ACACACTTTCAACTGATATAAAAAGCCCTTTAAGATTCACATAATCTAAATAAATAAGCA
GAAACACAAAGGGGAGGTACCTGCCCG
Sequence 189
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGGAGGGAACTGTTGCA
AAGCCATTTCATCGAGAAGGGGACAGAAGGAGAAATACACACATGTATACACAAACAGAA
TGGTTGAGAAAACGTTTTAATAAAATGTGAGGGTTGTATGTGTGCGTGTATATATTTACA
CTTAACCTCTAAAATTCTCTTCTACAGTATCTCTGTTATGAATATGATGGAAAAGCAACA
TTTTGGTGGTGAGACTATTGTTAAAATAAATTTGAGAAAGACGAAAATTTTGTGAGTCTT
GATAATT
Sequence 190
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTGTTCAATACATTTTA
GATTACGGATTGACAAAGTAAAGATACTGCTATGGAATGATACATTGTATTTTCTGCATT
GTGTGAAATAGTTTTTATTGAAAGNCAAGTGACATTTCAAAAGAAGNTCTATAACAATTA
TGTTTCATGCTTAAAGTAAAAATTCCCAGAGTTTAGTTTAGAAAATGTAATCTTTTAAAT
TTCAGACTGATATATTCCCAGTATTTTCATAATGCCATGTTTTGATAAAGTACCTGCCCG
GGCGGCCGCTCTAGAACTAG
Sequence 191
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTCTTATAAAAGATTCT
TTCTCCCAGAATTATATCTCCTCAGAGCAACAGCAAGGTTCTCAGGATCGAAGCCTACTC
TAGCCTGAAGGGCTAGGAAGATTAGGATAAGGATAAGGATAATAATCCAAAAGTCTCGAC
AATTCCAGTAGTCTCTGGATGGCTCCAACATCATAGAAATTTAACACTGTTCCACTTGTT
TACAAAATCTAACACTGGCTTAGACATTCTGGACTTTCAGTGAGGGTTCCAGCATCTGAT
GTCCCTCAACTCCTTTCCAGGGTGAGAGGCCCACTTACAGGAAACTTAACTTCTCACCAT
GTGGACCCATGGAGGGGTTTTTCTCTTGCAGAAGGGCTAAAAAAGTGAGGAGGCTATGGA
AAAAATGGTGGGTCACTTTTAAGGCAGACTGTTNGGGTTGGGTGGGAATTTTT
Sequence 192
CCGCGGTGGCGGCCGCCCGGGCAGGTACGATTCACTAGGGCATCCTGCGAGCCTCACTAG
CCTTCTGGTTCATGCCTTTGACAAGCATTTTTGTGCCCCCTCTGCTTACTGTGACAGTCG
ATGATGAATCTTGCGTTGCCATTTTCTGCTGTGGGTAACTGCGTGCAGNGTCTTGCCTTG
CTTTCTCTTNTTACTGTCCCACAGCTTGGTTTCATGTTACAAACAGAAAAGCTCGAGGCT
CCCACCCCGCCACATCCCAACTTCATTTCCCCCTCACTGTAGCCCATTTCCACCCCACCA
CAAAGTTGCCACAGGTTTTCTTTGTATAGAATATGTTATTTTGAAGCTCTATTTTAATAG
TATTTATTTTAGAAAGTCTACTATTGNAAGAGTTCTTCTGGTTTGGGAAGAAAAAAAACA
AGGTAAAAACTGGAA
Sequence 193
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCATAAGCTTGGATTTTAA
ACACTGATAGTATCTCATGAGTAATGTGTGTTTTGGGAGAGGGAGGGATGCTGATTGATA
TTTCACATTGTATGAAATACCATGTTTGAAACTCATAGCAATAATGCTATGCTGTTGTGA
TCCCTCTCAAGTTCTGCATTTAAAATATATTTTTTCTTTATAGGAATTGATGTATACCAT
GAAAGTCATTGTCAGTTGTAGTAGGCTCTGATGTTGAATGAGATATCATGGTTTAAGCAT
TNCCATTTTACTGGCCTAGGGGAANAANACCACTTTTTCTTGGCTTNCATTTGGGANGGA
TCCCCCAGGGGGNGTNTTTGGGGTGGTCCCTTTTTNTNGGGGGAAGCCAACCATTTCCAC
TAGGCCTCTTTTTTTTTNAANCCTTTNAAAAATGGGGAA
Sequence 194
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGTGGACCGTGAAANGCTGTAG
TTTGCAACCCTGCGAGTATGTCTGGATCACAGGAGAATGGTCAGAGTGCTCAGTGACCTG
TGGAAAAGGCTACAAACAAAGGCTTGTCTCGTGCAGCGAGATTTACACCGGGAAGGAGAA
TTATGAATACAGCTACCAAACCACCATCAACTGCCCAGGCACGCAGCCCCCCAGTGTTCA
CCCCTGTTACCTGAGGGACTGCCCTGTCTCGGCCACCTGGAGAGTTGGCAACTGGGGGAG
CTGCTCAGTGTCTTGTGGTGTTGGAGTGATGCAAGAGATCTGTGCAATGTTTAACCAATG
AGGACCAACCCAGCCACTTATGCCACACTGATCTGAAGCCAGAAG
Sequence 195
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTGGGGTCATAATT

Table 1

ATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACTTCCTGCTGCAATGACT
GCTGGTATTGTGTATGCTCAGAGAAGACTGAAAAAAATCGGTATTTTCTGTATCAGTCCT
CAAAGAATAAATATTTGTGGACAGCTCAATCTTGTTTGCTTTGACAAGACTGGAACTCTA
ACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGGAAAATGCACGATTTCTTTCA
CCAGAAGAAAATGTGTGCAATGAAGATGTTGGTAAAATC
Sequence 196
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTGCTGCACAGATTGATA
CATTAGCCTTTGCTTTTTCTCTTTCCGGATAACCTTGTAACATATTGAAACCTTTTAAGG
ATGCCAAGAATGCATTATTCCACAAAAAAACAGCAGACCAACATATAGAGTGTTTAAAAT
AGCATTTCTGGGCAAATTCAAACTCTTGTGGTTCTAGGACTCACATCTGTTTCAGTTTTT
CCTCAGTTGTATATTGACCAGTGTTCTTTATTGCAAAAACATATACCCGATTTAAGCAGT
GTCAGCGTATTTTTTCTTCTCATCCTGGGAGCGTATTCAAGATCTTCCCAATACAAGGAA
AATTAATAAAAAATTTATATATAGGCAGCAGCAAAAGAGCCATGTTCAAAATAGTCATTA
TGGGCTCAAATAGAAAGAAGCTTTTTAAGTTTTAAATCCAGTTAATCTGGT
Sequence 197
TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTGTTCTACTGT
TTTAAAAAGTTTTCCGCAGAACAGTGCATTTATGGCAATGCTATGTTTAATGAGTTAGGG
ACATCAAATATATAGTAGTTCCTTATTTTCAGTTGTGAAAATGAAATGGCTAAAGCAGAA
GAGACGTCTATTTTAGTCTTTTAAAAATGTGTGTGGGTGGTCTTTTTTCCTCAGAAGCCC
AAAGCACATGTATATTTTGTTATTTCTCCTTGCTATATTCCTGAGACTATACTAAAAACT
TTAAGAAAAGGAACAAGAAAAAGGTAAATTCATGTGTTCCCCACTGCTGTGTCTAGAACC
AAGATCACATTATATCATTGTTAAAATTGTGTTATCTAGGAAAGGTGCAATATAGGGAAA
ACACTCTAAGAATCTTTTAAAAACCTAAGGGTTTCCCTTATTTTGTCAGAATATGTNGGG
AAGTGGCCATCCCATAAGGAATCTTTTTAACC
Sequence 198
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCTACCTTTAAGACTGGGATAACTATTG
GAAACAATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCT
TCACAGCTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCT
ACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCT
Sequence 199
CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGATGAACA
CCAACATGTTCCAGAAGACCCAAGAGAAAAATCACAAGATGAAGTCTTGAGAGATGACCC
TCCAAAAAAAGAACATCTACGGGATACAAAGTCTACATTTGCTGGCAGTCCAGAGCGTGA
GTCCATTCACATCCTGAGTGTTGATGAGAAGAACAAGTTGGGAGCCAAGATTATCAAAGC
AGAGATGATGGGGAATATGGAATTAGCTGAACAACTTAAAGTTCAACTTGAAAAGGCAAA
TAAATTCAAAGAAACTATAACACAGATACCAAAAAAATCTGGGGTAGAGAATGAAGACCA
GC
Sequence 200
CCGCGGTGGCGGCCGAGGACCTGTGTTNAAAAGATGAAAGAAATGGNTGCTGAACCCAAA
ACATGTTTAGGAGGAAAACCAGAAGAACAGAGCAGTGGCACTGGACCTCCTGTCTGTCCG
TGAGGCTGCAGAACACAAGGCAGCTCCCAATGCCGCTGGACTCTCTGACCTTGGAGAGNG
TAAACATCATATATGATTCTGTGTTCCTGAGATCTGGGTTTAACGATCTGGGCTTTGTCA
TGGTGTT
Sequence 201
CACTACTATAGGGCGNATTGGAGCTCCCCGCGGTGGGCGGCCGAGGTACAACCTCTCGGC
CCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAACTAACTAATGTTCCGCAC
CCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCGATAAATAACT
ATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTAC
CTGCCCG
Sequence 202
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAATCCAAAAG
TCATAAAAAGCAAAAGCTATCTTTTTTTCACTCTGGCACCCATCTGTTCTTCCCTGGAGT
CAAACACTATTACCAATTTTTAGGTATACTTCCAAAGATACTTACTGCATTTACAAGCAC
AGACTTATATTGATTCTAAAAGAATAAGAGACATTTTCAGCATGTTGTTTTGTTCAACAC
CACAGTATATCTTAAAGATGGTCCCCCATCAATACATATAGAGATCTCTCTTTTTTATGG
CTTCATAGTATTATCATGTGCTGATATGCCAAAAACTAATCCATTAGACCCTTTTGGGTA

Table 1

TATATTTACTATTTTGCAGTCTTCTGCTCTTAGGAATAAAGTGAAATTCAATCACCTGTA
TAGAAAGTATTTCACACATGTTTGAATATATATGTAGAATAAATTCCCAA
Sequence 203
CCTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGCTATAAA
GGAACGTTTTTAGAGAAAGCACTGAAGACACACATTTTGCTGACCTAAAAGATTTTAAAA
TGAATTAGAATAATTTACATCATATAAAGAGGTATTTAGTCTTTAAGTGGAGAAAGTTGC
TAGTCACATGTAAGAAAAACAAGTATTATGGGCCTTCCTAAGACAAATGGAATAAATTCC
ATCACTTTTGGCTTTTTTATAAACCAGACTTCTAACAAATAACCATATTAATTTTCCAGT
AATCAAACATATCCTAAAAGAGGAAAAAGAGAATGTCTACTTTTAAATCACATCCAATGT
GAATTTGCGTGAATGCAAGGCATAAAATACCT
Sequence 204
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGCAG
GATGGCAGGCACAGAGCCGCCAGCTCTTTCCCCGCCCACTCTCGGTGAAGCAGTGCAGCT
TGCCCGCCAAGTAGAACGTCGTGAAGCCAAGGCCCGAAAAGGCAAAGGAGGAATGGATGC
TGGGGAAGCTTTTGCGGCCCTCGGACACCAGATCGGGGTCACCTGTGCAATGCATTTCCG
AGTTCATCACTCCATCTTCCCACTATTAATTTAATAGTGTTTGTGCAGACTCCATTCAAA
GCAAGAGCCAAGGACACCGCTAAGAAGGCTTCCTTAATTTCAGTCTTGTCTGTTCGCCGG
ATAATTTTCACCACACAAATAACAGCCAGGGGTGTGAGGAAAGAAATTGCAAACATGAGG
CNGGGTAGGGTATG
Sequence 205
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATATCTC
CTGGCTTCCTTCTACATGGGTCACTTAGTTAAGAGGGAGGCCAAGGGAGTTCCGATTTCA
GGCAGTGTGTGGCAGGGTTACTGTCCTAGCAACCTGGCTACTCCTCACTGTGAACGTTTC
TCATAGGTGTCATATGGCAGGATGAAAAACATATTTGCCTCCCAGTGAAAGATGGCACAG
GCTTTTGCCCAGCCAGGTTGGCAAGAGAACAGAACTCTTAACCCCTTGCTCGACAGGTTT
GAGTTCAAGGGGTTGGATGCTCCAAGCAGAGGGCCAAACCCTGATTTATGAAGCATGCTA
GGTCAACAGCCAGTCAGACCT
Sequence 206
ATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACAGTGCCCCCTG
CTTGTGGTGCAGGGGGGTGCCATTGCCGTGGTGCTTGGCATTGAGGGGCTGCAGGTGATG
CATTGCACGGGACACCAGGTCACTCAATTCGGCGATGCTGCCTACGCGCGTGGCCAGCAA
AGACTGCTCGATGGTCCTCAGCTCCGACTGGCTGAACATGGGCAGTTCCCCTGGACCT
Sequence 207
AGGGCTAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGCTAAAGAAGG
CAGGAGAGAAAGTTTTTGAGGATGGTGTGTGTAATCGGTCACTATTTACTGTGTGAGTTC
CACTGGAGACAAGCACACTTTCTCCAATCCCAGAGTCTACACCTGACTGGGAATTTTTCA
TTCTGGATTCTGATTGAGGGAAAATACTGATATCCAATGGGCTATAAGGAGGACCTTTCA
GTTTCTGTAACAGCATCTGAGTTCTATGCATGTCCTGGAAAGGCACCTGCCCACTGGCTA
ATTCACATGCTGTAATCCCAACACTGTAAATATCTGACTTCACATTATACCCACGTAAAT
CCTGTCTCAGTAGTTCTGGACTCAGCCACGGCTGCACTGATGTGCTGAACTGTGG
Sequence 208
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAGCTAAAGAAGGCAGGAGAGAAAGTTTTTG
AGGATGGTGTGTGTAATCGGTCACTATTTACTGTGTGAGTTCCACTGGAGACAAGCACAC
TTTCTCCAATCCCAGAGTCTACACCTGACTGGGAATTTTTCATTCTGGATTCTGATTGAG
GGAAAATACTGATATCCAATGGGCTATAAGGAGGACCTTTCAGTTTCTGTAACAGCATCT
GAGTTCTATGCATGTCCTGGAAAGGCACCTGCCCACTGGCTAATTCACATGCTGTAATCC
CAACACTGTAAATATCTGACTTCACATTATACCC
Sequence 209
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTACTAAATTATCT
ATGTCAAAAAAATTCTGTGCCTGGCGTGGAATTTCACTCCATCAAGTGTTACAATGATTT
TTTCATTTTCATTACAAGCAGGAGAATGAATGTAGGACAAGTGTTAGGAAACATGGCAAT
AAATTAGAATATAATTTACAAAAGCAAAAAAATTAACAGTGTACCTGCCCG
Sequence 210
CTATAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGTCTCCCAGTCTACA
TGTCCTGGCTGTTAATCATCTTGGCCCCTTGAGGCACATCACAGTTTGAAGGACCTGTTT
AAGTTGAAATAGACTTTGCTTATTTATTGGGATTCTAAAAAATTCTGAGTGAGTTTGCAG

Table 1

TATGAGAGGAAATAAGATTTCCTCCTCCTTCCTCTCATTTTATATTGACTGTTTGCCAGA
AACTGTTTTCTTCTGTTTTCTTATATTTTGTTTTTGAGATGGAGTCTCACTCTCTCACCC
AGGCTTGGAGTGCAAGTGGTGCAATCTCAAGCTCACTGCAACCTCTGCCTCCTGGGTTCA
AGTGATTCTCCTGCCTNGGCCTCCTGAGTAGCTGGGAATTACAGGCCCGGGCCACTACCN
CCCGGCTACTTTTTGGATTTTGGTTTTTAAGAAAAACCG
Sequence 211
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTNTTTNNCTTAAATTGCT
TTNTAGNTCTAAGATTGTANAATGANCCTNNCAAATTGGACTCTTTTCTAACAGAGNTAT
TTTAATATACTTGNTTTNTTAAAAAACAAAAAAACTACTGTCAGTATTAATACTGAGCCA
GACTGNCNTCTACAGATTTNAGATCTATNATTTTATTGATTCTTAAGCTTGTATTAAAAA
CTAGGCAATATCATNATGGATACATAGGAGAAGACNCATTTACAATCATTCATTGGG
Sequence 212
AGGTACTGGATGTTAGAACGGGCTCCAGGAGCCAGGAATCCTGGCTCTGCACTGTTGGAA
ACATCTAAGCTAGTCTTGCGCCCATTTACTGGCTTGACAGGGATGCCTGAGGACTTCTGG
ATCTTGCTGAGAGTGGCTGAACCACCAGTTTGCATGACAGTGGCTGTGCCTGTGGCAGGA
GGAGGCTTCTTGTAGCCAAAGGATCCCGAAGTGGAGGGGCGAGCAATGCCCGAGGGGGGC

Sequence 213
CCGCGGTGGCGGCCGAGGTACTTGAGACCTCATGCATATAAAACCAGCTTACAAACTACA
TCGCACTATATGAAGAAATTATCACTGGGGGCAAATCACCAAGTAGGGAGCACAATACAC
AGGGTGTGGATGTTAATGTCATTCCCTAGCCTTCTCATTCCCTTCTCTTGGTCCTTTATG
CATATGGAACAGTTCCATTATTAAATTTTGTAATAATAACTGAGAACCTGACTCCCAGCA
AGGGAGTAGTTCAAGAAGTTGAGGGGAGTTTAAATCTGAATGAGTAAATAAAGCAATTAT
ATCATTAGCTTAAAATTTTATCATCAATTAAAAATAAATTTAAAAACAAATACTTAAAAA
AAAAAAAAACC
Sequence 214
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTCTCATAAACTATCTCAGCACTGCATCCG
TATTTGTGGGCACCTGTGCCAAAAGCACCTTGATATGTTTCTTAGTGTAATTGGCCAGAG
ATGGCCAATAGATGTCTTCTCAAGTGTTTTTGATCACCAGGTCAGTGCTATTGGGAGTGA
TATAATATGGGTGGTTCCTAAAGTTATTTTTGGTCTCTTTTTTTTTTTTTTTTTAAGTGCT
ATGATAGATTAACAACACCTGCCTTGGATGCAGGAATTAGGTGGGGCTGCACACGTGCAT
GGTATTTTCTATCCCTATGCTAGGTTTTGNTTCTGTTGGGCTGTCTTCACTAGACTTGAG
ATGACTTGATTTAC
Sequence 215
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTAAAGTGAAAAGGGATGT
GCANAAAAATAAAAAAAAACAACAAANAAAGCTAACCTTCTATTAGAAAAGGGGACAGGG
GAATGAGTAAACTTCTTTTATTGCGGACAAATGTGCACATAGCCGCTAGTAAAACTAGCC
TCAAACAGGATGCTCATAGCTTAATAATAAAAGCTGTGCAAAG
Sequence 216
ACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATA
CAGATCTTTTACTGCCTTGGTGTTAAATTTATTCCTAAGTAAGTATTTTTTTATGCTAT
CATAAATGGCATCTTAATTTTTCAGTTAGGTCATTATTTTCATTATTTATGTATAAAAAT
GCTAATGCTTTTTGTATGTTGATTTTGTATTCTGCAACTTTACTGAATTCACTTGAGTTC
TAACAAACAGATTTTTTTTTGTGTGTGTATCTTTGGGGTTTTTACATAGAGCCCAGTTTTA
GTTTTAATAGAAATGTTTATAATAGTGGATGGAATAAAGACCTTTGTATGATTACTGTGA
ACCACTATCTCTCTCTATATATATAGATAGATATGAATGAGTATGTGTATAAATCATAAA
GCAAAGGCTTTGAGAAACCAAACTCATCTTTGCTTTCTGTACATACTGTGGCCTTTCTGG
TTTATT
Sequence 217
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATAACATC
ATAAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACA
GTAATTCTCACAATTGGTTAGACAATCATTTTTTTTTTCTTTTCTTTTCCTCTCATTTAGT
CTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAAATT
AACAAGATTCTACCTTAAAAGAGAAAACTTATGTGGGCTTTTCAAATTGTGAAAATTTGT
TCCCTCTTATAAAATATAATCTTTCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCC
CAGAGCCATTATAAAGAAAAAACAACCAACCACAATAAACTAAGGAGCCTCATCTGATGG

Table 1

CTAAGGGTTCTCAGGAAAAAATGAGAAGAGCCCTTTGATCAGGAAAGGAAAAAAGGATAG
AGGATAAAACAGTAACCTTTTA
Sequence 218
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTGAGACTC
AAGACTCTCACTGATTGGAGAGCTTGTGGAAAACAAAACACACCATGCCAATAAATGAGA
TGAAAACTTGAGTTTGCCTTTTTAACTATTTATGTTCTAAGTTAAGCTTTGATAACATTC
AAATGTCAAATTCTCTCATTCTTATAAAAAGTTGAATTAATTGCCTGTATTTATTTTAGC
AATTATTCAATGTATTTCCAGTATAGGATGTATAGTATAATTAATTTTTTGTAAATAAAA
TATTTTACCT
Sequence 219
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTANTCTTGTTTCTATGAA
GGAAAAGTTTGGCTACTAACAGTAGCATTGTGATGGCCAGTATATCCAGTCCATGGATAA
AGAAAATGCATCTGCATCTCCTGCCCCTCTTCCTTCTAAGCAAAAGGAAATAAACATCCT
GTGCCAAAGGTATTGGTCATTTAGAATGTCGGNAGCCATCCATCAGTGCTTTTAGCTATT
ATGAGTGTAGGAAACTGAGCCATCCGTGGGTCAGGATGCAATTATTTA
Sequence 220
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCAGATCTGT
ATCACTCCGGAGCAACGACCTGTCTCTCTGAATGATCTCTGGCATGGTAAAAGAGTTAAC
TGTATTTCAAAAGGTGAAACAAAACTTTTTTTGCTTTGTTATGCATGTTTCAAATTGATC
AATGGTTCAGGCCTGGAGTATGCATCAGAATTATCTGTGAAGCTTAGTGAAAGTGCTGAT
GCCAGAGCCCACCCAAAGCTTACTGCTTCANAACCACTGGGGACCTGGGCAGTTCTGATG
TGCACGACTAGTCAAGAATCCTTTAAAGGCTGATAAAGCAATCTTGAAATCACTGTCAAT
GCAAAAGTGGGATGTTCCTTATTAATAAGAACTCAAAAAATAAAGTACCTCGNCCCGCTC
TAGAAACTAGGTGGATCCCCCCGGGCTGCANGAATTCCGATATCAAGCTTATCGATACCC
GGCCGACCTTTGAGGGGGGGCCCGG
Sequence 221
CCGCGGTGGCGGCCGAGGTACGCGTTTCTTGTAAACACGAGGCACCCCAAGATAAGAAGA
CAGATAGAGCAAGGGATGGACATGGTCATCTCCTCAGTGATTGGAGAAAGTTACCGGCTT
CAGTTTGATTTTCAAGAGGCAGTGAAGAATTTCTTCCCCCCAGGAAATGAAGTGGTTAAT
GGAGAAAATTTAAGCTTTGCATATGAATTCAAAGCTGATGCATTATTTGATTTCTTCTAT
TGGTTTGGGCTCAGTAATTCCGTTGTAAAAGTAAATGGAAAAGTTCTGAATTTGTCAAGT
ACCTGCCCG
Sequence 222
AGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTCATACTACATTTGAACAGGGCAAAA
TGAACTAACTGCCATGTAGGCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTA
AAATTCCATGGATCTTGCTGGAGAAGCATCCAAGGAACTTCATGCTTGATTTGACCACTG
ACAGCCTCCACCTTGAGCACTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGTT
TTCTCTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCCTGGGTGCT
CAGGGCATGCTTATTAGCAGCTGGGTTGGTATGGAGTTTGGCAGACAGGATGTTCAACTT
AATGAAGAAATACAAGCTAAGGCCTTGCCAGCAACACCTGCCGTAAAGTTAC
Sequence 223
CCGCGGTGGCGGCCGAGGTACAGTCACCATCATACTTGTCTCCATTTGGAAAGATAAAGC
TGATCTTATACACTTCTGAAGTTGGTCGAGAGGTGTTAGAGAGATCTTCCAAACTCTGCG
ACTCCCCCTGGGCGGGCCAGCTCTGCGGCCACCTTGCCCG
Sequence 224
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTACTC
CATCTACCGAGGCAGCGCATGGCATGACTGAACGGCTTGGAACAAACACAGAAATTAGCA
CCACAAACATTCAGGAACCAAATATAATCTGCTATGGTCACACCACAGACAATGCAGGAA
GAGGCTTTTTATTGCTTGTGTGTGTTTTCAAATCAAGTAGGCACAACCCAGTCCTCATAA
CAGCCCTCGGGAGTGGACGCACCGGGGCGGGAGAGCGCAGGAGGGAGTGTGCTTGGCTAT
CCTGCCCAGTGGAAAGGAAAGTGACGTGCATTGATCTTAGAGTCCTTGGCAACAGACTGT
GGAGGCAATAACAGGATAAAGAAAGCAGGGAGAA
Sequence 225
CCCGCGGTGGCGGCCGCCCGGGCAGGTAAAAAAAAAAAAGGAGACACAAGACTTACTGCA
AAAATATTTTTCCAAGGATTTAGGAAAGAAAAATTGCCTTGTATTCTCAAGTCAGGTAAC
TCAAAGCAAAAAAGTGATCCAAATGTAGAGTATGAGTTTGCACTCCAAAAATTTGACATT

Table 1

ACTGTAAATTATCTCATGGAATTTTTGCTAAAATTCAGAGATACGGGAAGTTCACAATCT
ACCTTATTG
Sequence 226
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCATT
CATTCCAGTGAGAAGCACTAGAACTTTAAAATTTCAGAATTGGATGAAAATAACAAAGAT
CACCCAGTTGAATCATATTTTTTTGTTCAGAAGCAAAAACTGAGGCTCAGAGACAAACTG
TCCTGTCCAAGATTATACAGAAAATGGTGGGAAGAGTTGAGAAGTTTCTCAATAATGCCA
TGACTGTTGAATCATAGGAACAAAAGCCAAGAGATGGATCCTTACAATAGTTTAACAATA
TAAACCACATGGAACATTTCAAGAAAGAGTTAAACAATGATCTATGTTTAAAAGCTATCT
CTACCTGGCATAGTATCTCACATTCTATAATCCTAGCACTTTTGG
Sequence 227
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGGCCCGCAGA
GCTGGCCCGCCCAGGGGGAGTCGCAGAGTTTGGAAGATCTCTCTAACACCTCTCGGCCAA
CTTCAGAAGTGTATAAGATCAGCTTTATCTTTCCAAATGGAGACAAGTATGTTTTTCTCC
TCTGTTTAGATGGTGACTGTACCT
Sequence 228
AGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATAACATCATAAATAACATAAAT
GAGAAGTTTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAGTAATTCTCACAATT
GGTTAGACAATCATTTTTTTTTCTTTTCTTTTCCTCTCATTTAGTCTCAGAGCCTAAAAA
GAAATGCCTCCAGTCTNTGTTAGCCCCGATNTTNGGATGGAATTTACCAGGTTTNTCCTT
TAAAANAAAAAANTTTTGGGGGGTTTTNAAAAANGGGAAAAAATTCCCCCCNCTTTANAA
AAAAAANAATTCCCCCCCCNGGGGGNTGTTTTTAAANAAGGGGGGGNNNNCCCCCCCCCC
TTTTTTTTTTANAAAAAAAANCCCCCCCCCCCCNAANNNNNNNGNNNNCCCCCCNTTGG
GGGGGGGGGGGGGGNNAANAAAAAAAAAAAAAAAAANCCCCCCNTTTCTCGNGGGGGGGG
GNGGGNGGGGGGGGGGGGNNNAAANAAAANNTTTTTTTTTTTTTTTTTTTTTNCNCCCC
CCNCNANNNNNNNGGGGGGGGGGGGGGGGGG
Sequence 229
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATAAC
ATCATAAATAACATAAATGAGAAGTTTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAA
ACAGTAATTCTCACAATTGGTTAGACAATCATTTTTTTTTCTTTTCTTTTCCTCTCATTT
AGTCTCAGAGCCTAAAAAGAAATGCCTCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAA
ATTAACAAGATTCTACCTTAAAAGAGAAAACTTATGTGGGCTTTTCAAATTGTGAAAATT
TGTTCCCTCTTATAAAATATAATCTTTCCCCTGCTGCTGGTTTATAAATATGGGCATATA
GCCCANAGCCATTATAAAGAAAAAACAACCCACCACAATAAACTAAGGAGCCTCATCTGA
TGGCTAAGGGTTCTCAGGAAAAAATGAGAAGAGCCCCTTGATCAGGAAANGGAAAAAANG
GTTGGA
Sequence 230
TGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACATGGGTGTTTTGATCTCTG
TTCTTTCATACTACATTTGAACAGGGCAAAATGAACTAACTGCCATGTAGGCTAAGAAAG
AAATGCTAACCTGTGGAAAGTTGGTTTTGTAAAATTCCATGGATCTTGCTGGAGAAGCAT
CCAAGGAACTTCATGCTTGATTTGACCACTGACAGCCTCCACCTTGAGCACTATTCTAAG
GAGCAAATACCTTAGCTCCCTTTGAGCTGGTTTTCTCTGATGGCACTTTTTGAGCTCCTA
AGCTGNCAGCCTTCCCTTT
Sequence 231
CCGCGGTGGCGGCCGCCCGGGCATGGTACTAGAAATTGCACTGTCCTAGAAATTCCTCCA
TCCCATGAAGCCATTTCCATCATGAAACCTTTGACACACTTGAACACAAGTTCCGCTCTC
CTTAAGCACCAGGGTATAGTCATTTNCTCTGACATATAATGTACTTAAGCNCTGCAGAAT
NGCTCNAGTAATATNCCNATANGTNCNTTTCCAATTTCAATTA
Sequence 232
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGAGCT
GACCAAACGGGAGGTCGAATACATTGCCCTGTCAAGGGACACCACTGAAACTGATCTCAA
ACAGCGACGAGAGATCCGTGCAGGCACAGCCTTTTACATTGATCAGTGTGCAGTTCGTGC
AGCCACAGAAGGCAGAACTCTCATTTTGGAAGGTTTGGAAAAGGCAGAGAGGAATGTTTT
GCCTGTTTTGAACAACTTGCTGGAAAACAGAGAGATGCAGCTTGAAGATGGACGCTTCCT
GATGTCTGCTGAGCGTTACGACAAACTTCTCCCGAGATCATACCAAAAAAAGAGTTGGAT
TCTTGGAAAATTGTCCCGAGGTTAGTGAAAATTTCCGAGTGATTGCCTTGGGGCTTGCCA

Table 1

GTGCCCAAGGGT
Sequence 233
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGATAGAGATAATA
GAAGACAAAGAGATTAAAAGGAAATAAAAATGCATGATTAAAAACTAAGAATAAAAAACC
TATTTTTATGTTTCCTAAAGGAAATTGTTTATTCTACAGACTCAGTAGGTAGACACAAAC
ATAAAGATTTCCCTAGAAGACATAGAGTGGGATTTGATAACACTGTCTGTTATTTTNTGT
ACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNGTTCCCTT
TANGGNGGGGTTAATTTGCCCCCNTGGGGGAAACATTGGGANTAAGCTTTTTTCCCCCG
GGGGGAAAAATNGTTTTTCCCCGTTCAAAAATTTTCCCCANNAAAATTTNCNGGCCGGG
GGGNAANAAAAAAAGGNAAAANANCCCCNGGGGGGCCCCCAAAANGGGGGGGG
Sequence 234
CTACTATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTGTTTTGTTTT
AAATTAAGAGATTCCCAAATGCCTTTTTCCCCCTCATCTTGAAATGAGATGAGTTTTTAT
GTGTAAGCAATATTTATTTAACTATTCTATAAAATTATTGAGTGCCTACTGAGGCCTTTA
AGCACCGCTAACATTCCTTTCCATCATTCTTTTAAATGACATAAAATAATTGTGCAATGT
TCCTGATGATGTACCTGCCCG
Sequence 235
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTAATGTTTGCAAC
ATTTATTGAGATCTAAGTCTGTCTTGCCTTCATTTCTCTTTTTATCTCCCCCTTGCCCTC
ATTCTTGAACAGCTGGAGGAATACATTTTATTCTGTCCATGAAGCATACACTATGAAATT
CAAGTGCTTAAAAATACTTCTATGACTCTNTGCTATCCCACTGTATAGATCCACAGGGAG
CAAACACTTAGAAATGATAGAGAACTGAAGGAGATCAATGGTTTAACAGTTATCCATGCC
AAGTCCCATTGNCAGAAATATTCTTATTACTCAGGCAAACACTCTTTGAGCTTCCCTTNC
TAAAGGTAACCATTCCAGTGAATAGATGTGCCCT
Sequence 236
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTAATCATTCATATTG
ACTTAATCAGGTTGACAAAATCTCAGGGTTGGTCTGGGATCATTCACAAATCAGAATTAC
TCAGAGAAATTTTCACAGCAGTTGCAGCAGCACAAACTCTAACGCTGATTTAAATTAATA
ACTGTTATTAATGAACAAACTTGAAAAAGGAATTTCATATAGAACATTACATTTCTCCCT
GACACTACCGTATCATAAAAATTAAAAATGATATAAACATGTTTTAAAGTCATAGTGGTA
GAACCAGCCACACTACAGTGCGGCATTGTTAGGAAGTTCGCTCTCAAGTTGACTCAGCTT
AGTAAAGCAAATTGTTCTCTGAGATTTCAGCTTTGGTTAGTCCTCTTTGGCTGA
Sequence 237
CCGCCCGGGCAGGTACNTTGTTGTCACAATTTAAAACTTCCTCTTCTACATACATGTTCC
AGAGAGCATCTTCCAAACCGGATACATTTTTGACTGCTACTGTTAGATCTAAGAAGTCTT
CCTGCCTCTCGCTAACGTTCTTACATTCTTTACAAACAATCTGGTTAACAATGGTTCCAT
GGTACCTTGGGCCGCTTCTAGAACTAGTGGNATCCCCCGGCCNGNNGNATTTTNTTTTCA
ANNTTTTTNGNNTCCCCGGCCCCCTTTGGGGGGGGGCCCCCCCCNCCCCCNTTTTTTTTC
CCNTTTTTGGGGGGGGGNTTANNNNNNNCCCCNGGNGGGNTNNTNTNGGGGNTCANNNTAT
TTTTTCTNNNGGGGGGAAAAAAAATATTTT
Sequence 238
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTTGAGGACATTTT
TGTCAGATTAACTATAACAGTGTAGTGTAGTTTTTAAAATTGCAGTTGAAAAGTTTAGCT
GTCTTGGAAGTCAAATTTATCCAATTGTTCAGACTTCTGTTACTACTTAATATGAAGCCA
CCATGCTGGCTTGGACAGAATTAATTTCATTCATGTTATGGAGAATTCTATATTACAAAT
CTGGTCCCCTATAATATGAACAGTGAGCAGTCAGAAATATACAAAGGGTTAAATAGGGTA
AAGACTTTGGCCAAGAAAGGAAAGGCCTTAGTTCTACCATAGAGTATCTTCTCTAATTAA
AATGACTGGGGAAATATATGGAAGCAGAAACCAGCACAAAGCACTACCCATCTAGAAATA
ATCTTTTCAGGTTAAAAAACAAC
Sequence 239
CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCTAGCTG
GAAAAACCATATAGAAAACATGATGACCATGTTGAGTTGTTGGTGCTGAGGCTGTGAACT
CTTTGGCTTCCTTCTGATGGCCCTCTTGAGAACAATCTGTACCT
Sequence 240
NGCNAATTGGAGCTCCCCGCGGNGGCGGCCGAGGNGTTGGGTTTGATTTGCTTTTGTTTT

Table 1

TAATGCAGCTCTTTTAATATAAAGATTCTTGATACAGTGAAATCTCTTATTTCAAGTGTA
AGTTATTCTTCACCCACCCCTTCCCCTGCCATTGTATTTCCCATCTGTTNNANGGNGTTN
NANCANTTNNCATTGNNTCGNATNCAGNAGGTNCCTGCCCG
Sequence 241
AGCTCCCCGCGGTGGCGGCCGAGGTACTTATTGAGTGCTTGTATGCACCAGGCTCTGAAC
TAAACGCGCTCCATATTACCCCCATTTAAATTCTTACCATTATTCCTGTCTTACAGAAAG
AAAAAAGGCATGGTGAGTCACACAGTTCACAAATGAGGGCTAGAACCAAACCCAGGCACT
GTGACCTGCTACACAGGAGAGGCAGATATGAAGATTTCTTCAAGGGTGCTTATTACAGCA
TCATTTATAATAGCAAATAAAGTACCTGCCCGGGCGGCCGCTCTAGAACTA
Sequence 242
CCGCGGTGGCGGCCGAGGTACTCCTCCAGATCCTGGTGCTGCTTTTGTGGTGGTAGAATG
TCCAGATGAAAGCTTCATTCAACCCATCTGTGAGAATGCCACCTTTCAGAGGTACCTGCC
CG
Sequence 243
CCGCGGTGGCGGCCGAGGTACTTTTTAAAAAATCTATAAATTTAATGCACTGTCCAAGTG
AAATGTCCTAGTTGTCATTGTGATTAAGGGGCCAACTTTCCAGGCAGCTAGCAGAGATAC
TATTCTCTTCCTCTCCCAGCAAATTTGTATTCCTTCGCCCACGCATTCCTGCTATACTAG
ATGGCAGCCAGTGATGGAACTATAAAGATGTCTGTGGTCATATGTTGAATGTGGCAGCTT
GAAGATGTACCTGCCCG
Sequence 244
CCGCGGTGGCGGCCGAGGTACACGAAAAAGGATTGGAATTGTGTTTAGTTTTTGGTGTTT
AGATTATTTTCTTTGTGTCTTTCTTCTTTTTCTTTTTTTTTTTTTCTTTTTTACAATAGG
CCAGTAGAATTCTTATGAGAACAGGCTTTTTAAGCACTTCAATGGAGTGTCATTTTTTTG
GTAGCTTCCAGAAGGTGCCAAACAGGTTTCAACATCATATTAATTAGAAATACCCATAAT
AATTATAACAACAATAAAAAGGTATAATATGGTACCTGCCCG
Sequence 245
GCTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGCTTTTCT
TTTGAAAGTATGAAAATGATTTTTACAATGTAAAGAGAGTCTGAGAAATGCAATTGCTAT
TCTTTTTATATACTTTTTCAGATTTTTTATATGCTTCTTTACTACTTACATCATAATGCA
CAATTTTATATACTGATTTTTTCAATCAATGTATATCATGAGTTTTTAAAATAATGCTAC
AATCTTCATAACTAATATTTTAATGGGGAGTGACTGCTTAATTGGCATGAGGTTTCCTTT
TGAGATGAGGAAAATGTTCTGAAAATATGGTGATGGTTGCACACCATTGTGGAATGGTAC
CTGCCCGGGCGGCCCGAGGTACTTGCCTGGGAGAAG
Sequence 246
GCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGTCCCCAGCTTACTCCAGGGATGA
TGTCAGAAAATGAGGTCCTAAACATGCAGCTTTCGGATGGAGGACAAGGAGATGTCCCTG
TTGATGAAAACAAACTCCATGGTAAACCTGATAAAACCTTGCGCTTTTCCCTCTGCAGTG
ATAATCTGGAAGGAATATCTGAAGGTCCTTCAAATCGCTCCAATTCAGTGTCCTCCCTAG
ACCTAGAAGGAGAGTCTGTGTCAGAACTTGGAGCAGGACCTTCTGGCAGTAATGGAGTTG
AAGCTCTACAGCTGTTAGAACATGAGCAAGCTACAACACAGGATAACCTTGATGATAAGC
TAAGGGAAGTTTGAAATTCGTGACATGATGGGGATTAACAGATGATAGGGGACATATCAA
AAACAGTGAGTGAGACTTGGAGTCCTTCGGCCCCCTTTAGAACTAGGTGGATCCCCCCGGC
TGCAAGGAATTCCATTCAAGCTTATCGATCCGTCCACCTCGAGGGGGGGGCCC
Sequence 247
ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTNCTTTTTTTTTTTTTTTTTTTTT
TTTTCTTATCAAAAATATTTTATTTNCAAAAAATTAATTATNCTATACATCCTATACTGG
AAATNCATTGAATAATTGCTAAAATAAATNCAGGCAATTAATTCAACTTTTTATAAGAAT
GAGAGAATTNGACATTTGAATGTTATCAAAGCTTAACTTANANCATAAATAGTTAAAANG
GCAAACTCAAGTTTTCATCTCATTTATTGGCATGGNGNGTTTTGTTTTCCACAAGCTNTC
CAATCAGNGAGAGTCTTGAGTCTCANATGTACCTCGGCCGNTTTAGAACTAGGGGATCCC
CCGG
Sequence 248
TTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGCACATCTCA
GAGAGATGGAGGCAAGCTGGGTTCCTGATGATTTCCAGCTAATACAGGTCCTTCCTCCTG
CATGCAGGCGCCCCGTAACGCTTTATAACAGACGCCTCTAGACTTCTGTGGGGGTAAAGT
GAAGGACCCAAAGCGACACAAGTAGTGTCTGTTCACACTTCCACTTTCAAAGCTAACTAC

Table 1

TAGCTGTTCAAATATACTCCATACAGCTTTCAGCAAATCAAAGTGTTTACCTCTCCCACA
CCAAGGGAAGAAAAGATGCAGACTGCCTTTAAAGCACCTGTCAGCAAGGCGAGGGGTTTT
AAAAGGATCAAGCCTTGAGAATCAAAGCAGCAGCAGAAGTGTCATTCTTNCAGTGCTCTC
CTTTCCGGTTC
Sequence 249
TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCCATTGGTCTTACAGA
CAAGCATCAGGAACCAGAGGGCCTGGTGGGGCTGGGAGGAAGCTCGGCAGTGACAGCTGA
GGTGCTCATGTCCTTCCATCCCACTGCCCAGTGGATAATGAGCTCATTAGTCAGACGAGG
ACCAGCCCAGAATAGCCAGGAGTAAGCATGTCACATTACAGAGCTGTAGCCAGCTTCTGG
GTGGAAATAGCACTATCTGGTACCTGCCCG
Sequence 250
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCTTTTTGCACACTGTCA
GCAAAACACGTCCCTTTGAGTATCTCCGGCTCACCAGCCTTGGAGTTATTGGGGCCCTGG
TGAAAACAGATGAACAAGAAGTAATCAACTTTTTATTAACAACAGAAATTATCCCTTTAT
GTTTGCGAATTATGGAATCTGGAAGTGAACTTTCTAAAACAGTTGCCACATTCATCCTCC
AGAAGATCTTGTTAGATGACACTGGTTTGGCTTATATATGTCAAGACGTATGGAGCGTTT
CTCCCATGTTGCCATGATCTTGGGTAAGATGGTCCTGCAGCTATCCAAAGAGCCT
Sequence 251
TACCCGGGCGAAGTNANTNNGGGGAAAANTNCCCCCCCGGGCCGNCCGGGCANTTTTACN
GGCACANGGTTTTAAGCCNCNGAGGGGTTTTTGAAANCCCCCCANGANACCNNANGGNGC
AGGGGGTTTTNNTTTAAAANAAGNNGGAACCGCCGGANGANGAGGGANGGNAAAAACACC
CNGGGGAAACCNAANAANCCCNAAAAGGGGNCAAGGNGGNAAAACCCCCAAGCNAACCCN
GGGGGGNCCANGGAAANNCNGGGACNAAGACCCAAACCAAAANGGGNNGGANGGCCGCCN
GGGGGACAANNNCGGGCCNACNACCAAGGGGAACAANCAANNGGCCGGNAANNGGCCCNC
AAGGGCCNGGNAACAAAAANNNNNCNAACCCCGGGGAANNAAAGNAAAGGGGGCAAAAAA
GGCAAANAAAACCNCGCCCAAAANGGGGAAAGAAAAAANNCAAAGGGNGGCCCCGGGGGG
GGGGNNNCCNNGGAAAAAGNAGGGGGNAAAAAAAAAAAAAANAAGGANCNNNAAACCCN
NNCNAAGGNAAGGGGGAANNNNNAAAAGGGGNANNNNNNNGGGAAAAAAAAAAGGGGGGA
NAACCNGGGAAAAAAGC
Sequence 252
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATAACATCATAAATAACATAAATGAGAAG
TTTTCAAGTATTTCAATGTGCCTTGAAAAGTTTCAAACAGTAATTCTCACAATTGGTTAG
ACAATCATTTTTTTTTCTTTTCTTTTCCTCTCATTTAGTCTCAGAGCCTAAAAAGAAATG
CCTCCAGTCTCTGTTAGCCCCGATGTTTGGAATGAAATTAACAAGATTCTACCTTAAAAG
AGAAAACTTATGTGGGCTTTTCAAATTGTGAAAATTTGTTCCCTCTTATAAAATATAATC
TTTCCCCTGCTGCTGGTTTATAAATATGGGCATATAGCCCAGAGCCATTATAAAGAAAAA
ACAACCAACCACAATAAACTAAGGGAGCCTCATCTGATGGCTTAAGGTTCTCAGGAAAAA
ATGAGAAGAGCCCCTTGATCAGGGAAAGGG
Sequence 253
CCGCGGTGGCGGCCGAGGTTGGAAGAGAAGTTACCCCGATGACTTGGTTTGGAAGGGGTT
AAGGCACCAGTCATCCTCTTCTAAAGTGATTTATGATGATGTGTGGAGTTTAAAAACTTT
ACCCCACCCCAAAGAACAGCCCTCTCACTCCTCACTGAGTCCACTCTGAACGTGCTAAAA
TGGGAAGGAGGCGGTGTTTTGCTGATCTGTTAAATTCTTAGTGAAGTTTCCTTGATTTCC
AGTGGCTGCTGTTGTTTGAGTTTGGTTTGGAGCAAAACTGAGGTAAGTCCTAACATTTCT
GGGACTGAATCCAGGCAAGAGAAAGAAGAAAAAGANGAAGAAAAAGAGGAGGAAAAAGGT
AGGGAGAAATAAAGGGAGGAGAGAAGCACAGTGAAAGAAAAAAAAAGTCC
Sequence 254
GGCCGGTACCTTTAACTCAATTTAATATAACAAGAAATCGTAAAATACTTATAACCTATC
TTAGAGAAATGAGTGCTGGTTTTGAGAGTTGTTTTTAACTGAAAGATTATTTCTAGATG
GGTAGGGGGCTTTGTGCTGGTTTCTGCTTCCATATATTTCCCAGTCATTTTAATTAGAGA
AGATACTCTATGGTAGAACTAAGGCCTTTCCTTTCTTGGCCAAAGTCTTTACCCTATTTA
ACCCTTTGTATATTTCTGACTGCTCACTGTTCATATTATAGGGGACCAGATTTGTAATAT
AAGAATTCTCCATAACATGAATGAAATTAATTCTGTCCAAGCCAGCATGGTGGCTTCTAT
TAAGGTAGTAACAGGAAGGTCTGAACAATTGGATAAATTTGGACTTTCAAGACAGCTNAA
CTTTTTCACTGGCAATTTT
Sequence 255

Table 1

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGTGGTAGGTC
CAGGAAATATGACATTTTCCCCCTTGATGTGTTATTGTTGTTGTTGGGTGGGGTGGGCAT
TTTGTTTATTTGTTTGGTGGCAATCAGTGGTAGTAGGGAGTGGGAGGGCTTATATTGGTT
TTTCCAGCTATTAAGGGGACATATTGTGTCGTTGTGCTTTTCACGTTATAAAATGTTTAT
ATTTACCAGTACCTGCCCG
Sequence 256
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCATAAGCTTGGAT
TTTAAACACTGATAGTATCTCATGAGTAATGTGTGTTTTGGGAGAGGGAGGGATGCTGAT
TGATATTTCACATTGTATGAAATACCATGTTTGAAACTCATAGCAATAATGCTATGCTGT
TGTGATCCCTCTCAAGTTCTGCATTTAAAATATATTTTTTCTTTATAGGAATTGATGTAT
ACCATGAAGTCATTGTCAGTTGTAGTAGCTCTGATGTTGAATGAGATATCATGTTTTAGC
ATTCCATTTTTACTGACTAGGGTAGAAGAACACTTTTCTTGGCTACATTTGGAGGATACCC
AGGGAGTCTTGGGGTGTTCCTTATCTGGGGAAGCAAAACATTTCACTAGTCTCTTTTTTT
TCATC
Sequence 257
CCGCGGTGGCGGCCGCCCGGGCAGGTACATTTTTTAAAGTTCCTCAAAAAATTCTGCTTC
TAGGCAAATGTAATAGATATTGTGCGTTGCTCATGTTTTTCCTATCAGAACCATGATTTT
AAAAAAACTATCCTTTCTGTCCCCATATATCCCTCATGTGGCCTCCACTTCTACTCTCAG
CTCCAGTGGACCTGACTGCCCTAAAGGTTATTCTAGACCCTTTGCCAGTGACTGGCTCAG
GGATGGACAGGTCTAAGTTACTTTAGAGCAATGAGACCTAAGGATATGGAAAGTGAATTC
TGGGAAAGCTTTCTCATACTAGGACAGGGCCCCTAGAATCCAGCCTGACTCTTCCGCTGC
ATGTAAATGAAGATGCACAAGGCTNCAACTGCTACTGGCAATCATCCCATGACCACGAGG
GTAGCCAGCCTTAGGATGATGCCCCATGTTTGTGGGTTGAAAANGGGGGGGG
Sequence 258
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCTAGCTGGAAAAACCATATAGAAAACATGA
TGACCATGTTGAGTTGTTGGTGCTGAGGCTGTGAACTCTTTGGCTTCCTTCTGATGGCCC
TCTTGAGAACAATCTGTACCT
Sequence 259
NNGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACAAAAGCCTGTGAACTGGCTTA
AACCAGTTTACATGCTGGATTCCGACCCAGATAATAATGGATTCATAAATGAGGATTTTA
TTGTTTGGATGCGTACC
Sequence 260
TAGGGCGAATTGGNAGCTCCCCGCGGTGGCGGCCGAGGTGNCTGAAAGTCGATGAAGGAC
GCGATTACCTGCGATAAGCTTCGTGGAGTTGGAAATAAACTATGATACGGAGATTTCCGA
ATGGGGTAACCTAACTGAGCAAACCTNAGNTGCATTTTGATGAATCCATAGTCAAATTAN
CGAGACACCGTTGCGAATTGAAACATCTTAGTAGCATCAGGAAAAAAAAAAAAACCNNAA
AANNANAAAGGCTTGACCT
Sequence 261
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTATAGGCCATATTCCTT
TACGTGGGACATTAATGAAAAGCTGTCTTTTCCAAACTGAATGCGCCTATTAATAAAAAA
ATACACCTGACCATCTAATGCTGAAGTCATCCGCCAAGGTGGTACCTGCCCG
Sequence 262
CCGCGGTGGCGGCCGAGGTACAGATTATGGAAAATATGAAGGACTAACAAAGAATTACAT
GGATTATTTATCCCGACTATATGAAAGAGAAATCAAAGATTTCTTTGAAGTTGCAAAGAT
CAAGATGACTGGCACAACTAAAGAAAGCAAGAAGTTTGGTCTTCATGGAAGTTCGGGGAA
ATTAACTGGATCTACTTCTAGTCTAAATAAGCTCAGTGTTCAGAGTTCAGGGAATCGCAG
ATCTCAGTCATCTTCCCTGTTGGATATGGGAAACATGTCTGCCTCTGATCTCGATGTTGC
TGACAGGACCAAATTTGATAAGATCTTTGAACAGGTACCTGCCCGG
Sequence 263
TACTATAGGGCNATTGGAACCTCCCCGCGGGGGCGGCCGCCCGGNCAGGGTTTTTTTTTT
TTTTTTTTTTATACAAAAAGCAACAAGAGTTTAATTCTCTTTTTACATGGCCACAGGCTC
TCTTCAGTCAGGGGAACTTCAGCTGGTGCCTCTCTCTTGCAGCTATGAGGCGACAGTGTG
GTGACATGCCTCATACAGACTGTCCCAGTAAGCCAGGACAAGTCACCATTAAAATCTTGC
ATGAACAGCCCTGGGCACGTGGGAATGTTAAGAAAGAGCCACCGCCTCCTTAGTCAGCTT
AACCACAGCTCCAAACGCAGTTTGTCCCAGCTGGCAAACGCCTCAAACACCAATCATGCC
GTCGTGCTCCTATTCTGGGGTTTTATAAA

Table 1

Sequence 264
TAGGGCGATTGGAGCNTCCCCCGCGGGGGCGGCCGCCCGGNCNGGTNCAGATTTNTATTT
ATCCATAGATAGGGTATCTATACATACACATCTCAAGTGCATCTATTCCCACTCTCATTA
ATCCATCATGTTCCTAAATTTTTGTAATCTTACTGTAAAAAAAAGTGCACTGAACTTCAA
AACAAAACAAAAAACAACAACAACAAAAAACAAGTCCAAACTGATATATCCTATATTCTG
TTAAAATTCAAAAGTGAACGAAAGCATTTAACTGGCCAGTTTTGATTGCAAATGCTGTAA
AGATATAGAATGAAGTCCTGTGAGGCCTTCCTATCTCCAAGTCTATGTATTTTCTGGAGA
CCAAACCAGATACCAGATAATCACAAAGAAAGCTTTTTTAATAAGGCTTAA
Sequence 265
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAAGGTACACGGTGGACC
TGGAGTCAGGGCTACACTACCTCCTGCGGGTGGAGCTGGCAGCCCACAAGTCCCTGGCCG
GAGCAGAGCTGAAGACGCTCAAGGACTTTGTGACTGTCTTGGCCAAGCTGTTCCCTGGA
Sequence 266
GCGGTGGCGGCCGAGGTACTTTGGGGGAGAAAAACATGATTCCATTTACGGGGAAAAAAG
CCATTGACACTCAGTAAGCAACACTGCCATCTAGTGGAATGGTGACACACCACCAAGAAT
TTCAAGACCCGATAGGAAATGTGAGTGGATTTGGTTTCAATTTTCACCACAAAACAGCAC
TTTTAATAAGCTGGTTTTCAGAGAACTTCAGATTTTTTTGAGAAACTACTTTTTATCTTT
AAAATGCATAAATGTATGTGTTTTCTCTGTTTTGGGGGGGGTGGTTAAGAATGAAGTTGT
ATTTTTCTTATTAGAGCATAAAGTTCTCTACTTGAAAGGTAGAAAACACTTTGGGGCAAC
CTGCCTCCTTGAACATCCATCACTTCTGCTTGACAGTCTAACAGCACCCCTGATTTTAAC
AGACAGTTTATAAAGGAAGCAAAACTC
Sequence 267
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTGAG
GACATTTTTGTCAGATTAACTATAACAGTGTAGTGTAGTTTTTAAAATTGCAGTTGAAAA
GTTTAGCTGTCTTGGAAGTCAAATTTATCCAATTGTTCAGACTTCTGTTACTACTTAATA
TGAAGCCACCATGCTGGCTTGGACAGAATTAATTTCATTCATGTTATGGAGAATTCTATA
TTACAAATCTGGTCCCCTATAATATGAACAGTGAGCAGTCAGAAATATACAAAGGGTTAA
ATAGGGTAAAGACTTTGGCCAAGAAAGGAAAGGCCTTAGTTCTACCATAGAGTATCTTCT
CTAATTAAAATGACTGGGAAATATATGGAAGCAGAAACCAGCACAAAGCACTACCCATCT
AGAAATAATCTTTCAGTTAAAAAACAAC
Sequence 268
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTCATGGTCAAGCTCTAAGA
CACAACGAGCTCTGTTATTCAAGAAATCAATTCCAGTGGATTTCCAGTTCCAATTCCTGA
GAACTAGGGTAAGGGGGAGAGCTAATGGTTGCTTCCTAAGGCCTTCTGGGTTTATTAGTT
CCATTTCAGGACATGACAAGAAAATGTACCTGCCCG
Sequence 269
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCTA
AGGTAGTTAACACCACACAGGCTGATAACTCAGGGCAAGAGAGAGGCCTGGAGAGTTGAC
AAGAGTGTGAAGATACTGGAGAGGGGTTCAAAATAGGATCAATTCTTCTAATACTATTCT
TATTTCTTGCTAATAATTTGTCCTTGTAATTATAGTGAAGTAATGGTCTGGATATAAATG
AGATATGGTTTTGTGAGGGAAGAAACATAGAGGATTATTCTTAACAACTGTGGCAGCCTT
GCCAATATGGAACC
Sequence 270
CCGGGGTGGCGGCCGCCCGGGCAGGTGCGNTCTCAGCTCATTGCAACNTNTGCCTTTNTA
AACATGCTATTAAATGTGGCANTGAAGGANTGTTTTTANTGTNATCTTGCTATTAAGTGG
TAATGAATGTTCCCAGGATGAGGATGTTACCCAAAGCAAAAATCAAGAGTAGCCAAAGAA
TCAACATGAAATATATTAACTACTTCCTCTGACCATACTAAAGAATTCAGAATACACAGT
GACCAATGTGCCTNAATATCTTATTGTTCAACTTGACATTTTCTAGGACTGTACCT
Sequence 271
TTGGAGCTCCCCGCGGTGGCGGCCGNGGTACATCCACAGGAGGAATCGGACGAGAGGATG
TGACATTCGGTCCAGGAGAGAAAGAGCAGTTTCTGTTAAAGATGTAACAAATGGATTTCC
AAAGTCTACATGACATTCACTTTTCAAACTTCCCACCAGTTGAATTTCTTTTTTTCCTTA
AGAAACAGGTGATGTCTTGGAAAACAGCTCCTTATGTCTCTCTGTGCATCTCCATTTTCC
TAGTCTCTGGAGTCTCAAAAAGAGTGGCAAAGCACTTTACAGTAGTAACTGAGGAATCAG
AGTCTCTGCTTCAGCGATATCTAGTTTGTACCTGCCCG
Sequence 272

Table 1

CCGCGGTGGCGGCCGAGGTACTTGTCAAATGAAAGAACAGGGATTGCCAGACCTTCAAGG
CAATGGGAAAGGAGCAAATCTGCAAAGGTAGGATCTCTTTGGAAGGCAGGTATTGGCCAC
CAAGTCAAACTCCTTGAGTCTTATATTCTGATTGGGATGATCTCACATGGATGTTCATCT
CTTATATGTGAATGCTCATTTGTGAAAAATAGTAAGAGCCAGCTAGGATATTTGGATTCA
GTCAGGCACCATCAGAATAGTGCAGTGAAAGGCCAAACTGGCCACAAGACAGAGGAATGT
TTTCAGTTTTCTGGTTTTCCTCTGGTCCATGATAAAGCTCGGAGTAACTCTTCTATCAAG
ATGGGGCTATACCTTCNCATGACAGAGGCTGGCAATTGAGCTACCCAGCAGAACGTGTGC
TCTCAAAAGGGGAAGTCAAGGGAAC

Sequence 273

CCGCGGTGGCGGCCGCCCGGGCAGGTCAGGCAAGGAGAACTGTGCTATATTGTTGGTGCT
TGCTGTTTTGCTGGACATCTTCAATTATTGTTTTTACCTGAAATCAGTAAGACTTTGACA
GGATATCACCTGAATTATTAATGAATGCCCAGGAAGTAATTTTCTTCTCATTCTTCTAAA
ACTACTGCCTTTCAAAGTGCACACACACGCGTCCACATACACTGCATTCGTTGCTCCAGT
ATAAATTACATGCATGAGCACCTTTCTGGCTTTTAAGCCAATATAATGGGCTGCAAAATG
AAGACACCAGAGTGTATGCATACAAATCTCACTGTATTAAAGATGCAGGTTTTCTAATTG
TACCTCGGCCGCTCTAGAACTAGGTG

Sequence 274

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTATCAAAAAAT
ATTTTATTACCAAAAAATTAATTATCCTATACATCCTATACTGGGAAATCCATTGGAATA
ATTGGCTAAAATAAATACAGGGCAATTAAATTCAACCTTTTTATAAGNAATGGAGAGNAA
TTTGACATTTGNAATGTTATCAAAGCTTTAACTTAGAACATAAATAGTTAAAAAGGGCAA
ACTCAAGTTTTCATCTCATTTATTGGCATGGTGTGTTTTTGTTTTCCACAAGCTCTCCAA
TCAGTGAGGAGTCTTGGAGTTTCAAGAATGTACCCTGCCCGGGGCCGGCCGCTCTAGAAC
CTAGGTGGGATCCCCCCGGGGCTGCAGGGAAT

Sequence 275

GCGGGCCCGAGGGTACACACCGAAAAGGTGGTGGTATTTTTACCTTCCCAAAGGTGGTGG
ATAGGGTTTTATTGGGCCCTTTTTCNTAAAAAAGGAAAATANAAAAACCAAAAAAGGTTT
AAAAAATAATTGGAAAAGGTTTTAAAAATACTTTCNTTTTCACCAGGAAAAATAAAAACC
TTATTTCCAATTTTTTAAAAAANGGGTTAGGAGGAGGAGGANGAAAACCATTTTTAATTT
CCTTTTCTAATCAATTGGAAACCATCCAGGTTCAAAACCCAANGCCTTTCNACAATTTTT
TGGGGGGCCAGGGGNATTTTTTTTTAAAGGTTANTTAAAAATTTTTTTTTTAAAAGGAAA
ACCTTTAATTTTTTTAATTTTTTAAAAAAAAAANGGGGAAAAGGAAACCAGGGGTTTTTA
ATTTTTTTGGGCCAAGGAAAAAAANGGTAAAAAAAATAAGGAAGGAAATTAATGGCCCAA
AAAATTTTTGGTCCTTTTTAAAAGGAATTNGGGGCCATTAACCAAAAAAAATTTTAAAAA
AAAAACCAACCAAGGTTACCCCTTGGCCCCCGGGGGCCGGGCCCCGCTTCTTAAGGAAAC
CTAAGGGTGGGGGATTCCCCCCCCGGGGGGCCTTGGCCAAGGGGAAAATTTTCCGGANTA
TTCCAAAGGGCCTTTAATCCGGATTACCCCGGTCCGGACCCCTTCGGAGGGGGGGGGGGG
CCCCCGGGTTACCCCCAAGCCTTTTTTTGGTTTCCC

Sequence 276

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACTATAT
ATACATGTGCATATATATGTAAATTTATATTTATATATAATATCTTTATATAGATAGATA
TCTGCAGACAGGTTATTGATTATAGAGACCCAAGAAAGCAACTCAATAATTGTTCAAAGT
TTTCCTCACTGACTGCTGGTGTGTAGTTTAAGAAGCCCCCATTTGTTTGCACTCAGAATG
CCTTATCTTCTTTTAATGGAACACTTGATGTGGAATTTTAAGTCTGAGAAGTGAGGTGCC
TTCTGAAGAAGAGATTTTAGAGACTCCCTTCCTCTATAAGTTGGAAATGACCAGAAGTCT
TAAGTAGACCACAGTTAGCTGACTTTGACATTGTAGGACGTAATCAGCTTTTAACCAAAT
TATAGAACTGGTAAAGGGTAAGATCAAATTTGCCAAAAAA

Sequence 277

CCGCGGTGGCGGCCGAGGTACAGCACTGGGCTTTATAAAGACTGCACTCAGAACCACACT
GCACAGTCCAGTTTTTAAAAAGCTGCTACATGACAGACAGGTAATCCCACTGAGTGAGT
TTTGAGAAACAAATCAAACGAAGTAAACAAGAAACATAAAAACCAAATAGCAAATGAATA
AAAGCCTGTTCTTGTAACTTATTCAACTTTTGCCAAATTCCTACCAATCACTTGCTTTTT
AAAAGAAATGTATAATAGCCAAAAGAGAAATTATGTCCCTGTTGTACCTGCCCGGGCGGC
CGCTCTAGAACTAGGTG

Sequence 278

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTTTTTTAAGTTTAAAATTTTA

Table 1

ATATTTATAAATTTAAAAAATTTTACACGTGCTGAGTGGTAGCAGTGCTAACATTTTTGT
GACCATTAAACCACAAACTCACTGCATAGAGCTTCTTTCTTTGTACCT
Sequence 279
AGGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACAATAGCTAATACCGGAT
ATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGG
GGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCC
GGGCCGAGAGGCTGTACCTGCCCG
Sequence 280
AGGTACAGTGCCAGACCATGACTGTCAATCGTCAGATGAAGCGCTACAACGTTCCGTTTC
TAACTTTTATTAACAAATTGGACCGAATGGGCTCCAACCCAGCCAGGGCCCTGCAGCAAA
TGAGGTCTAAACTAAATCATAATGCAGCGTTTATGCAGATACCCATGGGTTTGGAGGGTA
ATTTTAAAGGTATTATAGATCTTATTGAGGAACGAGCCATCTATTTTGATGGAGACTTTG
GTCAGATTGTTCGATATGGTGAGATTCCAGCTGAATTAAGGGCGGCGGCCACTGACCACC
GGCAGGAGCTAATTGAATGTGTTGCCAATTCAGATGAACAGCTTGGTGAG
Sequence 281
CCGGGCAGGTACTTGTTTATAGACTCAAAACATGATGAAAATTCATTTCATTGTCTTCAC
TGAATAGACTTAACCTTGACAGTAAGCTTAAAGCATTAGTGTCATTTAATTACATGTCTG
AGGAATTTATGCTAACTAGATTTTGGGCTTTTGCAGCGAATTTTAGTCGGGGCCTCATTC
CTGAGCCCAAGTGACCCTTTCACCTCAGCTTCCCAAGTAGCTGGGATTACAGGTGCACAC
CAACTGTGCTTTGCAGTTTTGTTTGTGTGTGTGTGTGTGTGTGTGTGTATTTTGTTTTTT
TTACAAGCCCACAACATCATAGCTTTGCAGTT
Sequence 282
AGGTACAGCACTGGGCTTTATAAAGACTGCACTCAGAACCACACTGCACAGTCCAGTTTT
TTAAAAAGCTGCTACATGACAGACAGGTAATCCCACTGAGTGAGTTTTGAGAAACAAATC
AAACGAAGTAAACAAGAAACATAAAAACCAAATAGCAAATGAATAAAAGCCTGTTCTTGT
AACTTATTCAACTTTTGCCAAATTCCTACCAATCACTTGCTTTTTAAAAGAAATGTATAA
CAGCCAAAAGAGAAATTATGTCCCTGTTGTACCTGCCCG
Sequence 283
ATTGGAGCTCCCCGTGGTGGCGGCCGCCCGGNCAGGTACGGATACAATTCCGCTGAGTTA
AGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCT
GGATGCTTTGCCAAGCAATTGACTCCATCACGGNGACCATCCAGCGAAGCAAGGAANGGT
TTTGCAAATACTCGNTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGNGGGACC
TCAAAAGGATGTAAAACCT
Sequence 284
AGCTCNCCGCGGTGGCGGCCGAGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTCATA
CTACATTTGAACAGGGCAAAATGAACTAACTGCCATGTAGGCTAAGAAAGAAATGCTAAC
CTGTGGAAAGTTGGTTTTGTAAAATTCCATGGATCTTGCTGGAGAAGCATCCAAGGAACT
TCATGCTTGATTTGACCACTGACAGCCTCCACCTTGAGCACTATTCTAAGGAGCAAATAC
CTTAGCTCCCTTGAGCTGGTTTTCTCTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCT
TCCCTTCTTTTCCTGGGTGCTCAGGGCATGCTTATTAGCAGCTGGG
Sequence 285
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACATGGGTGTT
TTGATCTCTGTTCTTTCATACTACATTTGAACAGGGCAAAATGAACTAACTGCCATGTAG
GCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTAAAATTCCATGGATCTTGCT
GGAGAAGCATCCAAGGAACTTCATGCTTGATTTGACCACTGACAGCCTCCACCTTGAGCA
CTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGTTTTCTCTGATGGCACTTTTG
AGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCCTGGGTGCTCAGGGCATGCTTATTAGCA
GCTGGGTTGGTATG
Sequence 286
CCGCGGTGGCGGCCGAGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTCATACTACAT
TTGAACAGGGCAAAATGAACTAACTGCCATGTAGGCTAAGAAAGAAATGCTAACCTGTGG
AAAGTTGGTTTTGTAAAATTCCATGGATCTTGCTGGANAAGCATCCAAGGAACTTCATGC
TTGATTTGACCACTGACAGCCTNCACCTTGAGCACTATTCTAAGGAGCAAATACCTTAAC
TCCCTTGAGCTGGTTTTNTNTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTT
CTTTTCCTGGGTGCTCAGGGCATGCTTATTAGCAGCTGGG
Sequence 287

Table 1

AGGTACTTACATGGGTGTTTTGATCTCTGTTCTTTCATACTACATTTGAACAGGGCAAAA
TGAACTAACTGCCATGTAGGCTAAGAAAGAAATGCTAACCTGTGGAAAGTTGGTTTTGTA
AAATTCCATGGATCTTGCTGGAGAAGCATCCAAGGAACTTCATGCTTGATTTGACCACTG
ACAGCCTCCACCTTGAGCACTATTCTAAGGAGCAAATACCTTAGCTCCCTTGAGCTGGTT
TTCTCTGATGGCACTTTTGAGCTCCTAAGCTGCCAGCCTTCCCTTCTTTTCCTGGGTGCT
CAGGGCATGCTTATTAGCAGCTG
Sequence 288
AGGTACAGTAAACATTATTCAGTGAGAGATCAGAAGGAAACAAATGGCATCTTTTCAGAA
CGCTGTCAACTGTTCCCACAACCCAAGTCTGTTTTTCCAAGTTGCACAAGTGCTTGGAAT
AACTCTGAAACAATTCTCTTCAGAGTTTAAAGGCTTCAGAGTATAGGTGATGCTTCCTAA
AACAAGAAGCCTGTATTAACATCACAAATTGGAACTCATTCCAAAGCCTCTTCTTAGAGA
AAAAAAAATAAAGAAATAAAAAATAAAAAATGTAAAGAAGGTCATGAAAAATTCACATGC
AGCTAATTATCGTAAAAAATATCAAACAC
Sequence 289
AGGTACAGCATTGATGAACACTTTCAGCCGAAGCAGATTGTCAAGTCTCTTATCCCTTCG
TGGAACAAACTGGTTTTCTTTGAAGTATCTCCTGTGTCCTTTCACCAGGTGTCTGAAGTG
CTGTCTGAAGAAAAGTCACGTTTGTCTATAAGTGGCTGGTTTCATGGTCCATCATTGACT
CGGCCTCCCAACTACTTTGAACCCCCCATACCTNGGAGCCCTCACATCCCACAAGATCAT
GAGATTTTGTATGATTGGATCAACCCTACTTATCTGGACATGGATTACCAAGTTCAAATT
CAAGAAGAGTTTGAAGAAAGTTCTGA
Sequence 290
CCGCGGTGGCGGCCGCCCGGGCAGGTACATTGTGGTAGGTCCAGGAAATATGACATTTTC
CCCCTTGATGTGTTATTGTTGTTGTTGGGTGGGGTGGGCATTTTGTTTATTTGTTTGGTG
GCAATCAGTGGTAGTAGGGAGTGGGAGGGCTTATATTGGTTTTTCCAGCTATTAAGGGGA
CATATTGTGTCGTTGTGCTTTTCACGTTATAAAATGTTTATATTTACCAGTACCT
Sequence 291
GAATACGACTCACTATANGCGNNAATCTGANAGCTCCACCGNGGTGGGCGAGCCCGCCCG
GGGCAGGGGTTTTTTTTTTTTTTTTTTTGGTAAATTTTCAATAAGTTTAATTTTTAAATAA
ACCCAAGGGTTTTACAATTAAACCAGGTCAACGGTGGAATGGAAACCTTTTTTTTCTTTT
AAATGGTCAAGCNTNAAAACCTTCAAAAAACCACCAAGTTTTTGGTTTCACGGGTTTCAA
AAACCCAAAAACCAGGCTTCNTTTCAACGGTTTTCCCAAGAAAAGCCTGGCCCTTCAACA
GGCTTAGGCCACCAAGAATCAACAAGGGAAGAATTTAACTGGTCNTTGGTCCCATTAACC
CCAACCCAAGAACCACCAGGGAAACCTTGGAAACCACCCCCAACACCACCCCAAGTTTTT
TTCAAAAAAGGGAAGGGGGGAAACCTTTACCAAAATGGAAAATGGGCTTGGGCCTTGGCC
CCAAGGGGGCCAAGGCCCAATTGGAAGTTGGGTAATTCNTGGGGGGGACCTTCAAAAGGC
CTTGGGGGAAGGTTTTTTTTCCCAAGGGGGGGGGAGGNAAAAGGGCCCTTGGGGGGAAAG
GCCTTTTGGTGGGGCCAAANGGGGAAAAGNTTTGGGGGNAAA
Sequence 292
CCCGCGGTGGCGGCCGAGGNACNGANTNATTTTCNGNATTACTGAACNCCTTTGAACTAT
TTTGAACTNTGAATCTCTTCTCTGAATAACTGCCGAAACTCAAAGATAATAATNAGTTGA
TGAAGGTTATCAATTAATAAAATAACNCAGACCANTCTTACCAAACTCTAAATACATTNT
AAAAAATTTTAACTGGCAATGATAAAAAGAATGTTGAGTACCTGCCCG
Sequence 293
CCGGGCAGGTACAATAAAGTTCACCCACCCTGCACTTTGGCCCTTAGATCAATCCTAAGT
AGCCATTGCCAGTAGGCCAAGTTTAATCAGAGGACAGTGCCTACCAGTAAATACTGAATA
GTTACAATAGTTATGTCCATCCAACCAGTAGCAGATGAACAGCTAATACATCATGATGCT
ATGCTCTCCTAACAGGGTCCCCTCAGATCCTCAGTGAGCACATAAAGAAAGGGAGGTCAT
ATCCCTTACATCTCTACCAGGTATTAACACCTAACTACTCTCTAGCCAGAGGCAATTCCC
TTTATTTCCTTACTCTCGTCGTCTTCTCT
Sequence 294
CCGGGCAGGTACATAACATTTCAAATATAAGTGGAAGGATCATCAGTAGTGTTATCAAAA
TGCATAATACAGAAACTTTTTAAGAAAGGATAAAAAATTACACTCAGGACCCATAACTCT
TCCTCATTATAAGCATATGTAGTGATTCATTCATGCAGGTTTTTATATGTAGATAGGATT
TTTTTTTCCTTTTCAAGAATTCCATTGTAGCCATGAGATGAAAAATGTATTATGGTAATG
GTATAGCTTTCTTCTATTTTGCTTTTAGTGTTAGGTTTGCTAAAAGCTTATTTAAAATTC
CCAACTGACATAATGTGTTTTCAATAAGGAGGACGCT

Table 1

Sequence 295
AGGTACTGATTTAACACTCTGTATTACTGAACTTCTTTGAACTATTTTGAACTTTGAATC
TCTTCTCTGAATAACTGCCGAAACTCAAAGATAATAATTAGTTGATGAAGGTTATCAATT
AATAAAATAACACAGACCAGTCTTACCAAACTCTAAATACATTTTAAAAAATAGGAACTG
GCAATGATAAAAAGAATGTTGAGTACCTGCCCG
Sequence 296
CCGCGGTGGCGGCCGAGGTACAGCACTGGGCTTTATAAAGACTGCACTCAGAACCACACT
GCACAGTCCAGTTTTTTAAAAAGCTGCTACATGACAGACAGGTAATCCCACTGAGTGAGT
TTTGAGAAACAAATCAAACGAAGTAAACAAGAAACATAAAAACCAAATAGCAAATGAATA
AAAGCCTGTTCTTGTAACTTATTCAACTTTTGCCAAATTCCTACCAATCACTTGCTTTTT
AAAAGAAATGTATAACAGCCAAAAGAGAAATTATGTCCCTGTTGTACCTGCCCG
Sequence 297
CNCCCCGCGGTGGCGGCCGAGGNACAGNACTGTTTTTTNNAAAGACTGCACCCCAGAACC
ACACTGCACAGTCCAGTTTTTTAAAAAGCTGCTACATGACAGACAGGTAATCCCACTGAG
ACGAGTTTTGAGAAACAAATCAAACCGAAGTGNACNNGAANCATAAAAACCAANTAGCAA
ATGAATAAAAGCCTGTTNTTGNAACTTATTCAACTTTTGCCAAANTCCTACCAATCACTT
GCTTTTTAAA
Sequence 298
CCACCGCGGTGGCGGCCGAGGTACTATGTCAGNTTTGTATGTAACTAGCTGTCAGGTCTT
TCCCCGTTGCCTCAGCCTTTCTACACAGACTGGCCTTCAACTTCCCCTGAGTCCAGAAGT
AGACTCTTTCAGCAACTCTATTCAGGAATCTGCAGCAGGAAAACTGCTTCCTCTATTAAC
ATCTATGACTGAAGCACAGATGTGTCTAATAGAAATCACCCTTCACCCAAAAGCTGGGTG
CAGAAAGGGAAGCCCTTAGCTGACTATAGGAGGTGCCTCTTGTGGCTCCACGTGCTTCTT
ACACACCACCCCCCAGCTTGAGCGATGCCTCAGCCAGCTCACCCTCATCCACACAATCGC
TAGAAA
Sequence 299
CCGGGCAGGTACCATATCTCCTGGCTTCCTTCTACATGGGTCACTTAGTTAAGAGGGAGG
CCAAGGGAGTTCCGATTTCAGGCAGTGTGTGGCAGGGTTACTGTCCTAGCAACCTGGCTA
CTCCTCACTGTGAACGTTTCTCATAGGTGTCATATGGCAGGATGAAAAACATATTTGCCT
CCCAGTGAAAGATGGCACAGGCTTTTGCCCAGCCAGGTTGGCAAGAGAACAGAACTCTTA
ACCCCTTGCTCGACAGGTTTGAGTTCAAGGGGTTGGATGCTCCAAGCAGAGGGCCAAACC
CTGATTTATGAAGCATGCTAGGTCAACAGCCAGTCAGACCA
Sequence 300
CCGGGCAGGTACCTAAGGGGTTACTTGTTTAATGGGATGGCATTGACTTTTTGAAAATCA
AGTGGACTGAGTCATTGATAAAACATTTCTAAGAGTGGGGCTAGAGAACATACTTTACAT
CTGACATCCTTTGGCCTAACAACATCTATTATTATAGTGCTCAGCAGTGTGGGCATTGAA
GAGGCGCAGAATGCTTTGAAAGAAACTAATCAGAATCTTGGAACATCATGATCATGCCAT
TCTTAAGTAAATCAACTATTTTCAACACTGAAGAAAAATGAAACATTATTTAGAAAACAA
TGAGATTACAAGTTCCAAACTCAGCCA
Sequence 301
CCGGGCAGGTACCCTCTACCTCCTTCCCTGTCGGAAAAGTCACCACTTTAGTCCCTGGCC
ACCAGCACACCCCAGGAGGGTGAGTGGCCTGAGGTAGTTACCGGCACTTAAAACTCCCTT
GCTACCGATCTGGAACTCAAGCCCCAAGACATCCCCTTAGATGATCTGAATACGCATTCA
GGGACAGATCTAGGCAGTTTCTAAACAACACTTAGACTGGGGTCTAACGTTGACAAATCC
TTCTAGAATTTGCCTCTTTGGGACTGAAGTCTAAGGGGCTGAGACCAAGAAGGGAGAGCA
CAAGACTAACTTTGGTCTCTTGACCTTTT
Sequence 302
AGGTACCTTCTAAGGTAGTTAACACCACACAGGCTGATAACTCAGGGCAAGAGAGAGGCC
TGGAGAGTTGACAAGAGTGTGAAGATACTGGAGAGGGGTTCAAAATAGGATCAATTCTTC
TAATACTATTCTTATTTCTTGCTAATAATTTGTCCTTGTAATTATAGTGAAGTAATGGTC
TGGATATAAATGAGATATGGTTTTGTGAGGAAGAAACATAGAGGATTATTCTTAACAACT
GTGGCAGCCTTGCCAATATGGAACCCAATTTCAGAGTTTGTGAAATGGTACCTGCCCCGG
GCGGNCCGCCCGGGCAGGTACAGTGACCTAAAGT
Sequence 303
AGGTACTCAAATGCATTGATTTTTCCAGCTGGCTTTTCAGAGCAGTGCTAGTGAGAGGCA
CCAGTGTAACTTGAAGCAGGAATAGTGATGGCTCAGGTCCCCACAGGTAGCTCCTCCATA

Table 1

CCTGTGGGACTCAAAGGCTAAGGGCACTAACTCATAGGGCTCAAAGGCTGGATGAAGAGA
ACAATCAATGTGTTAAATGTCCTTCAGACCTAGGTCAGAGGACAAATTTTGACTAATTCT
TTTGACTAATTCTTTTTGCAACTTCTCTCAACAGGTACCTGCCCG
Sequence 304
CCGGGCAGGTACCTATTCACCATTCCAACGTGAAGAAGCTCTGCAGTAGGAAAAATAATT
AACACACTTATAGTCTACTGCCTATGTAAGGATCAGCTCCGGCTAAGAGGCCAAAGATGG
GTGACATCGTTATGCTCTGCCTTTATTTTTTCTTTCTTACCCACTTAGCTTCCTAATTGG
AGGAAGGAGGCGTGGTAAAGGTATATGAAGACTATGGTTTAATTAGACCAGAAAACACTG
TCATAATCTCTGGGGTCATCAGAATGTCCAGTTTTGTCTTTGGGCCAAGATAAGGGCAGT
GGGATTTATGATGTGTTGTTTATAGTCTGAAACTACTC
Sequence 305
AGGTACGCATGTCGCAGGGTTAAGTATGATGCAGAGGTTAAAGTCTGTTTGAACAAAAAC
AAATGCCCGGGGAAATTTCATAGCTATAAAGTTAATAACTAAATTTTGTTCACTAAGAGG
ACCTTTTCTATGGATTTCCTTCATCTCTCAGTCACACTGCAAACTTATCTGAAGTGCACT
TCCCAAGTGTAGTTAGAGAATAGGAAGGAATGTAAAATTTTTTTTTTTAATTATTTGTTTT
GTTTGTTTGTTTGTTTTTTTAAAAACAGCCCTTATTAACTCTTCCTTCCACTGATTCTAC
TGTAAACTCATAAAAGCCTTTTATAGAAAGCAAATTC
Sequence 306
CCGGGCAGGACTAGGGTGGACTAATGTCTCACTTCAAAAAAAATATGAGTGTAGTATACT
TGGCCTAAAATTGTTACTCAGTGTTACTAAAGTGTAATCATTTTCCACATCTCCAAATAT
ATTCCAAGTCTCTGAAATACTAGTGCATTGGGAGGTAGAACATTTTCGAGCTTCATGTCT
GTAAATGGTTTCTCTTTACTGTCATTCAGTAAAATCAGAATAAATGATTGATGTAATACT
TAAAAAAAAAAAAAAAAAAAAAAAACCT
Sequence 307
CCGGGCAGGTACATTCAAATCAGGACACCTGGGTATATGGACAAAGATATCCTACAATTA
AAATGGAATAGAAGTTAAAAAAAAAATTCAGTCCCCTACACCACAGGCCTCAAACATGCT
TGCTGATGGATTCTGGGAAGGTTTTGGATGAAGGACGGAGATATGGGAGGAAAGTGAGAA
AACAGTGGATTCCCTTTGAAAAGTATGCTAGCAGACAAGCATTTGGTTTTATGAAAGAGG
CACTCTTATAGAGAAAGAAGCTAGTATGTGGTGTATAAAAAGCCCCTAAATCATCACCAG
AATGTCTATCCATGATTGTACCTCGGCCGCT
Sequence 308
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTACTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGGTACCTGCCCGGGCGGNCGNCCGGNCAGGNCATAATACATGATTGA
ATACATGANCGNATNTAACATGNNTTTTTTTTCTGNNGNGGNCAAATAAACATNCTNAAA
GNNGCANCTGCNNATCAGNNACCCTTAGAAAA
Sequence 309
ANCCCCCCGCGGNGGCGGCCGAGGTACGCATGTCNTTTGGNNNAGTATGAANCACNGGTT
AAAGTCTGTTTGAACAAAAACAAATGCCCGGGGTAATTTCATAGCTATAAAGTTAACAAC
TAAATTTTGTTCACTAAGAGGACCTTTTCTATGGATTTCCTTCATCTCTCAGTCACACTG
CAAACTTATCTGAAGTGCACTTCCCAAGTGTAGNTAGAGAATAGGAAGGAATGTAAAATT
TTTTTTTTAATTATTTGGTTTGGTNGGTNGGTTGGTTTTTTAAAAACAGCCCTTATTAAC
TCTTCCTTCCACTGATTCTACTGGAAACTCATAAAAGCCTTTT
Sequence 310
CCGGGCAGGACTAGGGTGGACTAATGTCTCACTTCAAAAAAAATATGAGTGTAGTATACT
TGGCCTAAAATTGTTACTCAGTGTTACTAAAGTGTAATCATTTTCCACATCTCCAAATAT
ATTCCAAGTCTCTGAAATACTAGTGCATTGGGAGGTAGAACATTTTCGAGCTTCATGTCT
GTAAATGGTTTCTCTTTACTGTCATTCAGTAAAATCAGAATAAATGATTGATGTAATACT
TAAAAAAAAAAAAAAAAAAAAAAAACCT
Sequence 311
CCGGGCAGGTACATTCAAATCAGGACACCTGGGTATATGGACAAAGATATCCTACAATTA
AAATGGAATAGAAGTTAAAAAAAAAATTCAGTCCCCTACACCACAGGCCTCAAACATGCT
TGCTGATGGATTCTGGGAAGGTTTTGGATGAAGGACGGAGATATGGGAGGAAAGTGAGAA
AACAGTGGATTCCCTTTGAAAAGTATGCTAGCAGACAAGCATTTGGTTTTATGAAAGAGG
CACTCTTATAGAGAAAGAAGCTAGTATGTGGTGTATAAAAAGCCCCTAAATCATCACCAG

Table 1

AATGTCTATCCATGATT
Sequence 312
AGGTACAGCCTCTCGGCCCGGCTAAACATCATCGTCTTGGTAGGCCATTACCCTACCAAC
TAACTAATGTTCCGCACCCCCATTTTTAAGTGAAGCTGTGAAGCTCCTTTCTATTAGTCA
TCATGCGATAAATAACTATATCCGGTATTAGCTATTGTTTCCAATAGTTATCCCAGTCTT
AAAGGTAGGTTAGGGTACCTGCCCGGGCGGNCGNCCGGNCNGGNCATAATACATGATTGA
ATA
Sequence 313
AGGTACAAACAGTAGAACAATACTGACAAATGCAAACTTAGTCACATGTGCTTTAATAAC
TGACAATACATTCAAGCAGGTTTTTCTAATTCAAGTGTATAGCACATATTCAAATAATAG
GAAACAAATCTCATGCAAAGTAAATAAATCTTGATGTNTAAAAACTGATTAGAACTAGAA
AAGAAGTGGACATGTTTTATTATCTTTGCATTACGTTCTAACAAAAGCAGATTATCAGGG
GCTCTTACTCACTTGCCATTCCTGACATGAGCACTATAAGTGAATACTATGAGTTCTACA
AACAGAACATTTTTCCACATGAATTTGACTTGCAA
Sequence 314
CCGGGCAGGTACGCCGTTTCTTGTAAACACGAGGCACCCCAAGATAAGAAGACAGATAGA
GCAAGGGATGGACATGGTCATCTCCTCAGTGATTGGAGAAAGTTACCGGCTTCAGTTTGA
TTTTCAAGAGGCAGTGAAGAATTTCTTCCCCCCAGGAAATGAAGTGGTTAATGGAGAAAA
TTTAAGCTTTGCATATGAATTCAAAGCTGATGCATTATTTGATTTCTTCTATTGGTTTGG
GCTCAGTAATTCCGTTGTAAAAGTAAATGGAAAAGTTCTGAATTTGTCAAGTACCT
Sequence 315
AGGTACATTTTGTATTAACTGAACTCAGCTAAACAGTAAAACCTGTTTTACTTAATCCCT
GTCTTGACTACCAGACTATCATGATGTTTGTTGGAACTGTAATTCCTGCTCTCCATTTCT
CTCTGTCCCCCAAGTTGAAAATATAACCCAAATCTTTAGAATTTTTGCCTCTCATTCCTT
GCAACTCCAGTGGGCTAGAATCTTGATCCAGTTTTCTCCAGACTAGATTTCAAGCTACTC
TGCATGATGTAGAACATGTAACCATGTAACCTCATCAGCTACCTTTTCCCTTTTGACTTT
TCCTGTTGCACACAGTTCAGTCTGACTATC
Sequence 316
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGAATGCGATCACT
GTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGGGG
AGAAGCCCTACGAATGCCTTGTCTGCGGGAAAGCCTTCAGCGACCACTCATCCCTCAGGA
GCCACGTGAAAACTCACCGGGGAGAGAAGCTCTTTGTGTCATCCGTGTGGAAAAGGCTCC
AGTGAGCGCGCCTGCTTTAGAGACACAGGATGATTCAGACCGGAAACAGACCTCGTGGGT
GTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAAGAATCCACGGAACTTG
GGAGAAGTCCAGTTCCTGTAAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGTT
TGTGAGAACTCACGCCGGGGGTGAAAATGTACCT
Sequence 317
GGAGCTCCCCGCGGNGGCGGCCGAGGTNTTTTTTTTTTAGTTTAGTTTATTTCTAGTTCA
AAAATAATCTGTAATTGCTGTAAGAAATGTCAACCACTTACCTAGGATGTTTGACAATTG
GGATGAAGTCTACATATACTAAGTAATGGCNAGACAATTATTTTATTGCTCAAAAGAAAG
TCAAAAAAATTCCATATTCCCTTTGGGGAAAATTGGCAGGATTTCAAGTATGACCTTTAA
GAATCAGGAAAAGACTAACTTATGCTTTAGGATTAAAACAATCAAATAATTAAATTAGTT
C
Sequence 318
TCTGGCGAACATACATGGCATATAGAATATCNCCTTCTTCCACATGCAGCCTGAACTTCT
TCACCTTCTCAAATAAGGCCTTAGCCTGCTCACCTTCCTTTTTATCCAGAGCCCCTGCAG
TGGATTTATCAACTACAAACTTCTCAGGAATGGACTTTAAAGACTGAGAGTTGACCAGGC
TGCCTTCTGGACCAGATTGGATGGTGTTGGACCTGTTCATGTTGTTCTTCCTGTTGTCCT
TTTCTTCTGAGTCCTCCCCAGACACTTCAGATAAAGCCCCGTGTGGTCCAAGGGAGAGTC
AAAACACTTCCCCAGAATGGGAGATGAAAATGTTCTATTTTGGGAGCTGGGACCAGGGGA
ATTTGAACCAAAAAGTTACTGGCAGAGCATAAANACCCAGGGTNTNGATGAAGGCCAAGG
TAAGGGNAATCTTGGCTTACCAGTGGAGGGCTCGCTTATACACATTTTGNTNANAACGGN
NNCCTTCCCCGGGCCGGCCCCCCGGCAG
Sequence 319
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAAACAT
CTCTTAGTAATTGAGAAAATTGAAAGAAAAGAAAAAAGAGAAAGGGAGAAAGAGAAACAG

Table 1

CGAAAGGGATAATGAAGGCGAGAAAGAAGAAGAGAAAGGAAGAGGAAGAAAAGTAAAAAG
GAGGAGGGGGAAGGAAGAAGGAAGAAAGGTGAAAAGAAAGAATGGTAAACTTTTTAACAA
CATAATTTATCCTTCTAGAATATGAATGTTGGTCTATTTGATGATGTCCCACAAATTCAT
TAGTCTCTGCTCATTGTTTATTTTTTATTCTTTCTGTTTCTCAGAGACAGTATTTTCCAT
TTTCTTCTCTTCAAGTTCATGGCTTCCTCTGTGTGTGCAAATATACTCTTAAATCCCTCT
GGTGATTTTTAAATTTTTATCATTGNAGTTTTCCACTCCAGAATTTGGTATCCTCTTTGC
TGATATTCCTACTTTTTAATATTTTTTCTGATTCCCTTATTTCTTTGGTTATGGNTTC
Sequence 320
NCCGCGGTGGCGGCCGAGGTACCGCTTATGCCAGGCCGATCCCGACCTGGACTCAGACAA
GGATGAAACAGGCGCCTATTTAATCGACAGAGACCCCACCTACTTTGGGCCTGTGCTGAA
CTACCTGAGACACGGCAAGCTGGTGATTAACAAAGACCTCGCGGAGGAAGGAGTGTTGGA
GGAAGCAGAATTTTACAATATCACCTCATTAATAAAACTTGTAAAGG
Sequence 321
GGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTATTTCTAGTTTAGTTTATTTC
TAGTTCAAAAATAATCTGTAATTGCTGTAAGAAATGTCAACCACTTACCTAGGATGTTTG
ACAATTGGGATGAAGTCTACATATACTAAGTAATGGCAAGACAATTATTTTATTGCTCAA
AAGAAAGTCAAAAAAATTCCATATTCCCTTTGGGGAAAATTGGCAGGATTTCAAGTATGA
CCTTTAAGAATCAGGAAAAGACTAACTTATGCTTTAGGATTAAAACAATCAAATAATTAA
ATTAGTTCAATTTTCTAACATAGTCTCTATCTTCAGTTAAAGTGCATCATTGCATGTTAT
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Sequence 322
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GGGTCCAACCCATAGGTCACTCCAAATGGCATCAACACTAAACCATAAATAAGCGTTAAC
AAAGTGCAAAGTTCTAAATTTTCGCATAGCTACTTCAAGTCCTCTCTTTTTTAAACATTA
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AGCCAGCCACATGCCCCCTTCTCTGCTTTTTCATCCCCCTCCATCTGATTCAATGGCGGT
GTCCCTGGCTTGCAGGCTTCAGTATGCTTCA
Sequence 323
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGAATCATCATGTAAGG
AGTTTTTAAAACATTGTTGCCAGGGCCCCTTTCTAGACCAAGTTAGTCAGAATGTTGGAC
AATGAGGCCCATGCATGGGTATTTTTACAAAGCTCTCTGGGAGATTCTAATGCTTAACCA
AATTGAGAAGCACTGAATAAGAATATCCTGGGCCGGGCGCACTGGCTCATGCCTGTAATC
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TGGCCAACGTGGTGAAACACCGTCTCTACTGAAAATACAAAAAATTAGGTGTGGTGGTGC
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TGGAGGTTGCAGTGAGCCAAGATTGCACCACTGTACTCCAGCCCG
Sequence 324
CCGCGGTGGCGGCCGAGGTACATTGAATCATCATGTAAGGAGTTTTTAAAACATTGTTGC
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GAATATCCTGGGCCGGGCGCACTGGCTCATGCCTGTAATCCCAGCATTTTGGAAGGCCGA
GGCGGGTGGATCACTTGGGGTCAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAAACAC
CGTCTCTACTGAAAATACAAAAAATTAGGTGTGGTGGTGCGTGCCTGTGTTCCCAGCCAC
TCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCTGGGATGTGGGAGGTTGCAGTGAGCCA
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Sequence 325
CCGCGGTGGCGGCCGAGGTACTGTCCTTACAACAGTTTGGACTGAATATTCTTGTTTCCA
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TTAAGACTAAGCTTTAGATGTGTGTCTAATTATCTGGCAAAAATAAAAGAACCAAAGAGT
TTCATGTTAGCAGCAAATTAACTAGATTTAAGGGTCTTGATTTTTTTCATAAGCCTTTGG
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Table 1

CAGTCTTTATAAAGCCCAGTGCTGTACCTGCCCGGGCGGCCGCTCTAGAACTAnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTCCACCTCGAGGGGGGG
CCCGGNCCCAACTTTTGGTNCC
Sequence 326
CCGGGCAGGTACCGCCATGATGAGAACATCTTGGAGTCCGAGCCCATTGTCTATCGACGG
ATCATAGTGCCCCACAACGTGAGCAAGGAGTTCTGCACGGACTCTGGCCTGGTTGTCCCA
AGTATTTCCTATGAGCTGCATAAAAAGCTGTTGTCCGTGGCTGANAAGCATGGGCTGACC
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GGAGGACCTAACAGGTTGAATCCCAAAAATGTTCACCAGAGGCCTACAGTGGCTCTACTG
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ACTAGCCCTGTGGACCTGGTCATCAACTGCCTGGATTGCCCTGAGAACGTCTTCCTGCGC
GAT
Sequence 327
CCGCGGTGGCGGCCGAGGTACACATGCATGCATACACACCCATACAAACATCTGTGTGAG
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TCCTAGCCAACACTATCCTTGGGAGAAAGAAATTTGCAGAAACTGCTAAGACCAAGTGTG
GAGATGTCAAGCTAGTTCACACTCTGAGGCTCAGAATATGTAGGACATGCACAATTGTGC
AGTCCTTTGGGATTGGAAGTGAAACAGTCTGTGATCCCCTACCTTCTAGGGAACTAGGAC
NTAGGAAGAGGTAAAGATTATCAGGTATGCAAAGCGCCCCAATTNTTCTGCTGCCATGGG
GGATTTTACCCCA
Sequence 328
AGGTACATATTTGTCCTTCTAGTTTGTTACTATCCTTCCCTGAAAGAGCGGAGCTGTTTA
TAGGAAGCACAACATTTGAGTCCCATTCACTGCTGTTTGTATTACATTTTCACAAAGCCT
GCTTTGAAAGCTGGCAAACACTGCAAGTTACATGTTACCATATTACACATGGGAGGACCC
ATACACATTGTTATTTTTAAATTTAACATTGAACAAAAAAAAGGAGGAATCACTTAACTT
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ATCAGCACAAAATACAGATGGGAATATTCTCGGGAGTGGTACCTGCCCG
Sequence 329
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Sequence 330
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ACGCGTGTGTGTGCACTTTGAAAGGCAGTAGTTTTAGAAGAATGAGAAGAAAATTACTTC
CTGGGCATTCATTAATAATTCAGGTGATATCCTGTACCTGCCGGGCGGCCGCTCTA
Sequence 331
ANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGACTCTTATTTNCTGCAGC
TNTTGAGAATACTAAAGATACCTGAGTNATTTTAAATAAATTTCAGGTTNCTTTACCAAA
CTACCCTTAACCGGATTCTCCTTGAAATGACATCACCTGACACCCATGGCATGCTGNATG
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Table 1

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CATACATAAACCAAT
Sequence 332
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GAGACTTGGGGAAATTGCTTTTCCTCTTGAACCACAGTTCTACCCCTGGGATGTTTTGAG
GGTCTTTGCAAGAATCATTAATACAAAGAATTTTTTTTAACATTCCAATGCATTGCTAAA
ATATTATTGTGGAAATGAATATTTTGTAACTATTACACCAAATAAATATATTTTTACCTG
CCCGGGCGGCCGCCCGGGCAGGTACATAATACATGATTGAATACATGATCGTATTTAACA
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Sequence 333
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CCTCGNGTAAGGAATGCCTTGCTTAAACTCAATATATAAAAATCAGAATTTTAAAAAAAT
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CAAGGCCTCTTAGGNGGTNTTGGAGGCCCTAATCCGTTTNGGGGAAACCTGGGNGGGAAA
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ACAGGAGGANGAACTTAAANGCTAATNGGGCTTCTTTTCCTTCAGGGGGGCCTTTAGGCT
CTAAAAAAATGGGAAAGTTTCTTTTNTTNGGACTGGAAAACTANGAGGAAAAAGGTAAAA

Sequence 334
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TATTGTTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACTCAGCAGGAAAAGAA
AAAGCAGTTCCTGGTTGTTATTTCACCTCGGCCGCCCGGGCAGGTACTTGTATCTGGGCC
AGCTTGATAGGGAGAGAAATCCTAAGGAATGTAGAGATGATGACCCTACCAAATTTGGAA
CTAGACTCCAATGAGTTTAGTTAAAACAAACACTATGGTGAAGAACTTTCTTCATTAGTA
TCTTGTCACTTGGGGGAGTGAGGGGGGACAGAATTTGCTCTTAAAAACCCAGGGGTTGCT
TTCATGTGTTATTACCNATGGTCTTTGTAGGCCTTCCATTTNGGATTGAGTGGGTNAAA
Sequence 335
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TGCCGCAGTCTGTCACCGAGTGTGTCAAGCAGATTTGCCTGGTCATGCTGGAGACGCTCT
CCCAGTCTCCGCAAGGGAGAGTCATGACCATTCCGTACGGCATGATGAGTTCTGAGCTGC
GGAGGAACCCTCATTTCCTCAAAAGTAATTTATTTTTACAGCTTCTGGTTTCACATGAAA
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GGAACAACTCTAATTAAGTACCTCGGCCGAGGTACCGGATTCTCTTCTTTAACCCTCCCC
TTTCGTGGTTTCCCCCAATGGTTAAAATGTTTGGATGGT
Sequence 336
ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGCTTGCCCC
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GTGAAGCTGTGAAGCTCCTTTCTATTACTCATCATGCNATAAATAACTATATCCGGNATT
AGCTATTGNTTCCAATAGTTATCCCAGTCTTAAAGGTAGGTTAGGTACTCAGCAGGAAAA
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GCCAGCTTGATAGGGAGAGAAATCCTAAGGAATGTAGAGATGATGACCCTACCAAATTTG
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Table 1

GTATCTTGTCACTTGGGGGGAATTGAGGGGGGACAGAATTTGCTCTTAAAAACCCANGGG
TTTGCTTCCATGTNTTATTACCATNTTNTTTTGTAGGCCTCCATTTGGGATTGANNGGTT
AAAAAA
Sequence 337
CCCNCCCCCCCATNANTANTTNNATANTATTTNNTNGTNGNNGGGGGTTGCACATTTTAN
GGCGAATGGAGCTCCACCGNGGTGGCGGCCGACCACTGACTTTGTGACTTAGGCGGCTGT
GTTGCCTATGTAGAGAACACGCTTNACCCCCACTCCCCGTACCTGCCCGGGCGGCCGGGG
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GCGCTTGGCGTAATTCATGGTCATAGCTGTTTTCCTGTGTGAAAATTGGTTATCnnnnnn
nnnnnnnnnnnnnnnnnnnCGAGCCAGGGAGCATAATAGTGTAAAAGCNCTGGNnnnnnn
nnnnnnnnnnnnnnnnnnnnnATTAAATTTGCNGTNGCGCTTCACNTGGNNCGCCTTTTT
CAAGTCGGGGAAAACCTTNTTCGTGCCAGCTGCCATTAATTGAATTTCGGCCAACCTCGC
CNGGGGAAGAAGGCCGGTTTTTGNCGGTATTGGGGCCGCCTTNTTTCCCG
Sequence 338
AATTGGAGCTCCCCGCGGTGGCGGGCGNGGTACTTTGGTCCAGATAACACTGGTGATATC
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TTGGTCACTGCAGATGGGAGTTTTGATTGCCAAGGAAACCCANGCTGAACAAGAAGCTTT
AGTTTCTTCTTTGCATTACTGTGAAGTTGNCACTGCTCTGACCACTCTTGGAAACGGAGG
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GCCCG
Sequence 339
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GTTACAGGGCTGCTGATGGGAGAGGGAGGAAGGCCTGGGAGGGGGATCTGGTGGTGGCGC
CCAATCTACAGGGTCCGGAATCAGGGTGGAAGTTGTCAGGGACTAGCGGCTGCCATAGTA
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ATGAGCTATGAACCACTGGAGCAGCCCACACTGGCTTGATGGATCACCCCCAGGANGGGA
AAATGGTGGCAATGCCCTTTATATATTATGTTTTTTACTGGAATTAACTGGAAAA
Sequence 340
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGACCGCTCCGAGATCTGTATGAG
TTGGAGGCAGGCCAGTGTGAAGGTGTGGGAGGAATCCGCCCACACNCAGCTTCATACAGC
ACCCTGAGGACAATGTGGCTTCCCTGATTCACACCTACTGAGCCAAGGCCCCCTCTGAAG
TTAGGTCAAGAGGGCCCACCCTAGCCGGGCCAACTCATTCCTTTGAGGACCTGNTACTCA
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ACTATTGCTGCTTATTGGTAACCCTATAAACGCCAACA
Sequence 341
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTCACTCAGAT
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TTTTGTGTGTGTTTGAAAGCTAATTTGAGAAAATTTCATAGGTTACATTTCCTGCAGCCT
ATCTTTATCCACAGAAAGTGTTTTCTTTTTTTAAATCAAGACTTTTAAAACTGGATTTCC
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ATTGTCCTTTCCACATTATGTTGTAGCTGGCTGGCTGTCAGGCGACTACAAGACTGAGGG
TCTTGTGCCTTATAGATCTTTGTATCCCCCATGGCTGACACATAGTAGGTACCT
Sequence 342
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GAGTCATTACAGAAGAAAAAAACTTATTGCTAACATTGCAGTATTCCTTTTATCAGAATT
AGGTGAGTATTGATTGTAAAAGCTCTATCAACTCTTGCTCTTATTTGATGACTTTGAGAC
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Table 1

CGAATAATTCAGGAAACAATGAGAGAAAAGTAATTCACACTTAATGTGTTGTTACTTAAG
AGATTTGACGGATAAAAATAAAATCAAATTAAATCATTTGAAAAGGCANGGCTTAGACCC
CCTTAAAAACACCGNTGGTGCCTACCATAATTTGAGCACTTTTTCATGAAAAAAAAAAAA
AAC
Sequence 343
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNNGGGAACNANAGNANAACTAAACGAT
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NNCANCNNNATTACATGACATNAAATCAGANACNANGGAGGCCCTGCTACAAAGAAGCAC
AAGATGTGGTGTTGCTTAAAAAGTCCTGTATGTGAGGAACTCTTTCATTTTCTTGGGGAT
TGGCAGTGCTAGGACTTGGTAAGTTGTTAGGAAACTTCGAAGGGCTTTCCGGCATAAGTG
CTTCAAGTGAGGACAGGACCCTAGGAGCTGTCCAAGAACTGGA
Sequence 344
AGGTACCAGACTCTTATTTCCTGCAGCTTTTGAGAATTCTAAAGATACCTGAGTCATTTT
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CACCTGACACCCATGGCATGCTGCATGCCCACAGCTAGATTACTTTTTAGTGCGCCCACG
CACTTCTGCTTTTATTTAGGTGGAGGGCAGNAATCANAGATTCCCTCTTTGTTGGGATCN
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CCAAATTGAAAATTATATTGNTGTTTANGAAAAAAATTTGGCTTATNTT
Sequence 345
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCCGGCCTGCANAAG
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GGTCTCCAGAGCCTTCTCTCTCCTGNGCAAAATGGNAACTTTTAAGGAA
Sequence 346
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TGCCCCCGGAGCCGAGTCCTGTATCAGCCCTTTATCCTCACACGCTTTTCTACAATGGCA
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TAAGCTAGAGGTCAAAATCTACTTCCTCTAATATCAAAACGAAAATT
Sequence 347
GGCNATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACCGTTTCCTCAGCGGCG
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AGCACTCCCACCAGGGATCCCACCCCCGCAGTTTCCAGGATTTCCTCCACCTGTACCTCG
GCCGCCCCGGGCAGGTACATTTAATCAGTAAATCAGTTTCACATCATGTATTGTGATGTTT
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ACACCTTGAATAGCACTAATTTTTATTTGTGGNATTTTTCTATAACAAAACAAGTAGCTC
TAGGAAAAGAGGTTTTATTTTGTAAACGATCATTTGTGACCTCAGACACTCTCTGGCTAA
T
Sequence 348
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CCACACGGATCTGAGAAAGTGCACTGTAGGCATAAGCAGCTATCCTGGAGACCTGCTGCA
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AATCATATAACCTCCTGGGGGTGGGGGGAGACCTCATAAATATTTTATATTGATTGACAA
AACAGCATGCT
Sequence 349
GGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATTTAACACTCTGTATTACT
GAACTTCTTTGAACTATTTTGAACTTTGAATCTCTTCTCTGAATAACTGCCGAAACTCAA

Table 1

AGATAATAATTAGTTGATGAAGGTTATCAATTAATAAAATAACACAGACCAGTCTTACCA
AACTCTAAATACATTTTAAAAAATAGAAACTGGCAATGATAAAAAGAATGTTGAGTACCT
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TCGCCTTCACTTTCCTGTCCTTAATATCCACTTTGTTGCCACACAACACAATGGGGATGT
TTTCACACACTCGTACCCATAGC
Sequence 350
CCGGGCAGGTACAACTTAAATAGCATNCTAGGGTAAAGAGTAACATATTCCCCAAGAAAC
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CTCACCAGCNNCACTTAATAAAACATTTNATTTCCATACNAAATCCACAAGCCTTTTCGG
TCAGACTTTAAANGAATGTATNATTCGAAAAAACAATNAGTTTATCTTCAATTTNAAAAA
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GGGGGGGCC
Sequence 351
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ACTATAACAAACCTNTTNCAGAAGACTACCGACATNCATATTTCTGCAATAGTTAGATAA
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TGA
Sequence 352
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AGACATTTTACCTAGTTATAAATAACGTAACAATAGATCACACTCAGATTTCTTAAACAG
CTCACTCAGGAGTTTCCTCTTTTAAAAATTAAATAACTTATGGTACAACAGGCAGCAAGC
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Sequence 353
CCGCGGTGGCGGCCGAGGTTTTGCTTTTTTTGAAAAAGGTAAGTTGCTGATTAAGTCTAA
TTGGAATTGATAATTCCATAGTCTTAGATTAAAATGAGGATATTTTCTCCTAGATTTTCT
CATGTTATGCCATGCATTTATATATCTAACCATTAATTTCACACTAAGGATGCTTCACCA
TATAATAAAAGGAGCAAGATGGAAGCACTTTGAATTTTCTTTCATTGAGAATAACTGTTT
TATGTAAGAATCTGTATTTATAACACCAGATATTAAGATAGGCTTCCATTTTTTAATGCA
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ATTAAAACACTACTTATAGAATAGATTTATTAATGTTAATACCTAGTGAATATCCATGTG
GCATCCTGGTTATGTTATCGGTTCAGCGTTAATCCTATAGAAAAGTGGTTTGGAGG
Sequence 354
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GTCCTATAATTTGACCTAAGCTGTGTGCCTTTGGAATCAGCTCTAAGCCAGGGCCCCCCG
GGAGTCATGTTAAGTAACACGATCATAAAGTGACATACATCAAGGTTATCTTATATAGTC
ATAACAGTATTATTGGGTCTTTCAAAAACAGCTGGCAGATTGAGCTTTTAATGGCTATAT
TGATACAGTAGATAGAGCACCTCTAAGGAGTCCTGCCCGGGCGGC
Sequence 355
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GGATCCTGTTTTATAATACTTCCAAGCCTGTCCATGGATATATCAAATGTCTTCACTTGT
ATATTTTCATGGCTAGGTATTTCTAATGTTTATTCTTCCCTGTGTACTGCAGGGGATGCT
CTGCCGGTCCAGGGACAACAGCCTTTCTCTTGCTACTGCTCTGATTCTTGTCTCGTTCCG

Table 1

TTTTTTCCTTCTCACCATCTTTCTGTGTGCTGTTTTCTTCATTCTGATCATGGTCCCCAC
TGTCATCATCTTTCAAAGCGTCGAACTTGTTGTTCATCCTCTCGCCGCCGCTGTCGCCCC
CGCGTACCTGCCCGGGCGGCCG
Sequence 356
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCATGTTACATATTCTTCTTTAAA
ATTTTGTAATAAACATTGACAGTGTTTGGTAGGCACAGGGAAACAGGATAACGTAGAGTC
ATTACAGAAGAAAAAAACTTATTGCTAACATTGCAGTATTCCTTTTATCAGAATTAGGTG
AGTATTGATTGTAAAAGCTCTATCAACTCTTGCTCTTATTTGATGACTTTGAGACTTTTT
TACTCTTGCTATAAAAAGAAGGCTACTTTCTTTCCCTAATATATTTCTACCAATGCGAAT
AATTCAGGAAACAATGAGAGAAAAGTAATTCACACTTAATGTGTTGTTACTTAAGAGATT
TGACGGATAAAATAAAATCAAATTAAATCATTGAAAAGGCAGGCTTAGACCCCCTTAAAA
AC
Sequence 357
CCGCGGTGGCGGCCGAGGTACCTCTTTGCCTTAAATTGCTTTTTAGTTCTAAGATTGTAG
AATGATCCTTTCAAATTGTAATCTTTTCTAACAGAGATATTTTAATATACTTGCTTTCTT
AAAAAACAAAAAAACTACTGTCAGTATTAATACTGAGCCAGACTGGCATCTACAGATTTC
AGATCTATCATTTTATTGATTCTTAAGCTTGTATTAAAAACTAGGCAATATCATCATGGA
TACATAGGAGAAGACACATTTACAATCATTCATTGGGCCTTTTATCTGTCTATCCATCCA
TCATCATTTGAAGGCCTAATATATGCCAAGTACCTGCCCG
Sequence 358
CCGCGGTGGCGGCCGAGGTACTTCTTTTCCAGAGCAGGTGGCACAAAACGACCCCCCAGG
TAATGGTAGCGACCGGTAAACTGGGTTGCAGATTTTTTGGGGGCTGTGAGGGAGATGAGC
AAGTCTGGCTGGATCCCTCCAGCATTTCCCTTCTCCACGTCCCATCCTGAGGGAATGTCG
ATGCTGGCAATGGGCACAGTGAGTCCCTTCAGGACACTCAGGATGCTGTGGAACGGTTCC
CGAACATCGCCCTTGAAGCTGAAGCCAAAGATGGCATCCACCACCAGCTCATACAGTTCA
TCAATCGTCATGGGCTCTGCGGGCATTTCCCCAAGGAAAGGGATGTCCATTTTCTGACAC
TGGGTCACCAATGCAGTGAAGAGGGGCTTGTTAGGCCTTTTGGGGTAATAGATGGTTGGC
TCGTAGCCAAAGAGTTTGAGGTGTCGAGCACAGACCAGACCATCTTCTTCATTATTCCCC
G
Sequence 359
CCGCGGTGGCGGCCGAGGTTTTCATGCATGCAGACTTTTATTTAACCTCATTGAAATTAA
AATTAGCAATTTAAAATACAAAATATAGCATTTTGGTTTTTAAAAATCACTATCTTTGTC
CTTTAAGATAAAAACAAATAGGGTTGGTCACCCTTATATGTCAACCCAAAAAGTATCAAA
AATACCTTGACTGCATGAAAGAACAGCTTCTTTAGGNCTATGCATTTTGACTTGGGCTTC
TGCCAGATGATACCATCCACTTGGGCAGACAGGGCTTTCCTTTAACCCT
Sequence 360
CCGGGCAGGTACCAGCGCGTCCCATACGTGGAGCCGCCCGAATACGAGTTCTTTTGGGGC
TCCCGGGCCAGCCGCGAAATCACCAAGATGCAAATCATGGAGTTCCTGGCCAGGGTCTTT
AAGAAAGACCCCCAGGCCTGGCCCTCCCGATACAGAGAAGCTCTGGAGGAGGCCAGAAGC
TCTGCGGGAGGCTAATCCCACTGCCCACTACCCTCGCAGCAAGTTGTCTTCTGAGGACTA
GCCAAAGTTCTGGGAGGNCAAGATTGAATGGGTTTTCNTGACCCCTCAACNCANGGGCTT
GTTGGGAAAGGGGNAGGGGTGGCTGGCGTTCATTAATAGGTATTTCANGGGATTTTAACA
GGCTGGCAANTAATTTNCACNGTTNTAAACCTTTTTTAAAGTATTTCCAAGGTNACCCTT
CTTTNCCGCNTCTTANGAAACCTAAGGTGGGGAATACCCCCNCGNGGGCTTTGCTAAGGG
GAAATTTTCCGANNAATTCAAAGNCTTTNATTTTGANTACCCGGCTNCGTANCCCTTCCC
AGGGGGGGGGGGGGGCCCCCGGGTTAACCCCAAGCTTTTTTNGTTT
Sequence 361
CCGGGCAGGTGTGTGTATTCACGCAGTTACTCGCTTCCATTTTTATGACCTTTCAACTAT
AGGTAATAACTCTTAGAGAAATTAATTTAATATTAGAATTTNTATTATGAATCATGTGAA
AGCATGACATTCGTTCACAATAGCACTATTTTAAATAAATTATAAGCTTTAAGGTCACTT
ATACTACCAATAACTTGTTAAATCAGGATTTGGCTTCATACACTNGAATTTTCAGNTATT
TTATCTCAAGTAGNATATAGACACCTAACCTTTGATAGTGGATACCGTTAGGAGGGGTTC
CTATTCTTCCCATTGTACCTCGGGCTCGCTCTAGGAACTAGGTGTNATCCNCCCGGGGCT
GCAGGGAATTCCGATATCAAGCCTTTATCGATACCCGCCGACCTCNGAGGGGGGGGGGCC
CGGTACCCAAGCTTTTTGTTTCCCTTTTAGTGGAGGGGTTTAANTTGCGCGCTTTNGCGT
AATCATGGNTCATAAGCTNTTTTCCCTGGTGGTG

Table 1

Sequence 362
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTCCTTCAGGGCATC
ACCCACCTTGCGGAAGTCTGCCAGCTGCAGCCAGCATGTCTTCAGGCTACATGAGCCGGA
CACCCCATGGCACTTGCAGGCCACATNAGCCAGGTTGTACAGAAATTTGNATATATGATG
GTTCTTAGAACTTGTTTTAATTTTTGTGGNCCTTCTGTTTATTATAATAGGCGTCCACCA
ATGATTATCCATATGTGTTCTTAATTTTTAACTGCTGGAAGTGTTAAAACACACACACAC
ACACACACACATTTTTTTTTTGAGAACTCCAAAGTCCTGAAAATTTTGGTGGACAATGAT
TTTTAAAAAACTAACTTTGTATAACCTAATATTTGNATTCTCTCATCTAT
Sequence 363
ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGCATATATTAGGCCT
TCAAATGATGATGGATGGATAGACAGATAAAAGGCCCAATGAATGATTGTAAATGTGTCT
TCTCCTATGTATCCATGATGATATTGCCTAGTTTTTAATACAAGCTTAAGAATCAATAAA
ATGATAGATCTGAAATCTGTAGATGCCAGTCTGGCTCAGTATTAATACTGACAGTAGTTT
TTTTGTTTTTTAAGAAAGCAAGTATATTAAAATATCTCTGTTAGAAAAGATTACAATTTG
AAAGGGATCATTCTACAATCTTAGAACTAAAAAGCAATTTAAGGCAAAGAGGGTACCTGC
CCGGGCGGCCGCTCTAGAACTAGGTGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnCGTCNACCTCCAGGGGGGGCCCCGGNCCCAACTTTTTGGTTCCTT
Sequence 364
CCGCGGTGGCGGCCGCCCGGNCAGGTACAATGTTGTTATGGTAGAGAAACACACATGCCT
TAAAATTTAAAAAGCAGGGCCCAAAGCTTATTAGTTTAAATTAGGGTATGTTTCAAGTTT
GTATTAATTTGTAATAGCTCTGTTTAGAAAAAATCAAAGACCATGATTTATGAAACTAAT
GTGACATAATTTCCAGTGACTTGTTGATGTGAAATCAGACACGGCACCTTCAGTTTTGTA
CCTNGGCCGCCCGGGCAGGTACAAAAAGGGATCAGAAGGGCAAGGGGCATGCTAACGTCA
TCGGGGGGGCCAGTCTCCAAGTCGCAGNCNCGTGCCCCCCGGAGGCCGGTGGCTATCTGAA
CTCTATGCATTCGC
Sequence 365
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCAGAATCTG
GTAGACTGCTCTGGGCCTCAAGGCAATGAAGGCTGCAATGGTGGCCTAATGGATTATGCT
TTCCAGTATGTTCAGGATAATGGAGGCCTGGACTCTGAGGAATCTTATCCATATGAGGCA
ACAGAAGAATCCTGTAAGTACCTCGGCCGAGGTACTGGTCTGTGGCCTGGGGGTGGGGAC
CCCTGTTTTAAGCAGTTTAAGAATTATTCTTTTTCAGAATATCTACCTCTACTGGGATAA
GATCACGTTTCTTTACTGTGAGCACACAGGTAGGTGCTCAATAAATGGCTTGTTGCAAGA
ATGAATGACCGGCCGCTCTAGAACTAGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnCGTCGACCTTCGAGGGGGGGGCCCCGGTACCCACTTTTGGTTC
Sequence 366
CCGCGGTGGCGGCCGCCCGGGCAGGTACACTGTCACCTGGAAGTGGTTCTTCTTCTGGCA
CACAAAGGCGTCGTCGCCCACCGAAAAGTTGAAGCCCTTGTCCGCATCCACGCGGTAGGT
GAGCATGGGCAGCTCCTTGTAGTTAGCATCGTACCTATAAAGTAAAGCTAAAATGATTTT
ATCTGTGAATTCAGATTTTAAAAAGTCTTCACTCTCTGAAGATGATCATTTGCCCTTAAG
GACAAAAAATGAACTGAAGTTTCACATGAGCTATTTCCATTCCAGAATATCTGGGATTCTA
CTTTAAGCACTACATAAACTGACTTTATCCTCAGACTAGCTGAATGATTTTGTGCTGTTT
CAGGATGTTTGCACTGAAGAAAAACAGAAAGCTTATCTGAAATTTATAAAACTTTTTGTT
TTGCTACATAGAAAACAGAAGGTA
Sequence 367
CTATAGGGTTTATGGGANCTNCCCGCGGTGGCGGCCGAGGTTCATTATTTTCCNTGTCTN
CCAGGANTTGTGGCGCAAGAAGAGGTAGCCTAATATAANCCAAAAGTTTACTTAGATCTT
TCCGTCTCTGTTCCAAATCATGACGGACCCAAGTAAGAAGTGCATTCAATATTGTCTCCT
CATTAGGAATGTTCATGTCATCACTAGCCAAGAGCTTTGCAATTTCGCTGGCTGGTAATA
ATACAAATTCCTGGTTTCTGATTACTTCCATGAAATGCTCCATAGTATAATTGTGAGCCA
CTTTATGCAAATCTGTACCTGCCCGGGCGGCCGAGGTACTGTATTAGAACACTGGGTGTG
TCATACCGTTATCTGTGCAGAATATATTTCCTTATTCAGAATTTCTAAAAATTTAAGTTC
TGTAAGGGCTAATATATTCTCTTCCTATGGNTTTAGATGTTTGATGTCTTCTTAGTAATG
GCATAATGTCATGATTTACT
Sequence 368
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGAGTTTCCCTATTT
TGGTGTTCAGCTTGAAAAAGGACTTGTCAGAATCAACTGTGTCATCAAAATTTAAGTAAT

Table 1

GTGCATTGAAAATAAGGTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTTAAATA
CAAATAAAATTGTAATTTAGAATTTTTAATCTTAGGTTTCTTGATTAATTTATAAGAGAT
CAATTATTGTCAGTCTTTTTTGTATGTTTTTTAAAAACATAGTCCAGAGCATGGGCAGAA
TTGACACCTCTCTTTTAAGTGAAATTTGGATTGCTCACAAAGCACTAGGAAATGTCATGG
GGTTCAAATATATATCCTACACAACTGGGCAATACATTTTTGTTTGATTTTTAGGTCTGT
GTATACATTAACAGTTCATGTAATTAATACCTGATCATTTGGGATAATGAAAGGTGAAAG
TTAGTTGTAGATGAAGTAAAGTTATAAAAGGAGATTAAAAATGC
Sequence 369
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTTGAAAAGCACAA
TAACTTGTATTAATTGCACTTAACACAATGAACCTTTAGTTTCCAACCAGTTTTCATTCT
CTGCAGACCCGGGCTTTCTTTTTATAAAAACTGCTTTCAAAGGGCATAGAGACACCACAC
ATGGTCCACAGCAAATTCAAATAGAGAGGTGCAATAGTTGCAGTGGTAAACACACAAAAA
AATACATTTTTTTGGACTAAAAATCTGGTCACGGATAAAAGCATGTGCCTTTTCATTCTT
CTCTGGGATGTTACAACAGCAACACGCTCTAAAACAATTAAGTTACATGCATAATGCCAA
AAGAATGTGAGCAATCCTATAACCAGCTTTAAGCCATCTGCTTGATTTCTTTTTTTTTTT
TGTAAGGAACATATATAGGAAAAGAGAATTNCCCTTTTGTTCCATTACATATAGAAACCT
TTTGAAGCTTTCAAANAGCTTTGGGTTT
Sequence 370
TAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCGCCATCTGGG
ACACCTTGTTTCCCANCTGGGAGGCTTCAGCCCGGGCAGCATTGGCCAGCGGCTCAATGA
GATGGGAGATCTCTTGGACTGCAGTGAGCATCTGAGTGTGCAAGGCCTNTTGAGAGATTC
CCTCACGGGGAGCAAGCTGNTGGCTTGACTGCAGCGAGNGAAGCCNTGNTNTAGTTNCCA
TTNNAAAAAATNTTTAAAATCNTCCAAANGGATTTTTTAAAAAATTTTGTTTTGCCCAAN
NNNNTTNAAAAAAAAAAAGGGGNTGTTTTTNATTTTTTTNAAAAAAANAATCCCCCCCCC
CCCTTTTTTTTTNTAAAAAAAAANNCCCCNTTCTTNNNAAAAAAAAANAATTTTATTTNNNN
TTTNTATAAAAAAAAAAATNTTTTTTTTTTTNNNGGGNTTTNNNCCCCCCCCCCCCCNC
TNCCCCCNNNCANAATAAANTTTTTTTTTTTTTTTTTTTTTATNATAAAAAAAAAAAAAAN
AAAAAAT
Sequence 371
GATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACTCTGGCGTGCAACCTGGAAT
TTTTCGGAGGTATTTGTAGGCAAAATACCAAGGGATTTATATGAGGATGAGTTGGTGCCC
CTTTTTGAGAAGGCCGGACCCATTTGGGATCTACGTCTTATGATGGATCCACTGTCCGGT
CAGAATANAAGGNNATGCATTANTCNCCTTTTNNGGAAAAGAAACTGCNNAAGAAAACCN
NGAAAAAANGGGNGGANAAAANTNNTAAAANTTTCCCCCTTGGAAAAAANCCTTGGGGGG
GGGGNCNTTTTTTTNGGGGAAAAAAAAAAAAAANNTNTTTTNNGGGGGNCCCCNCCCCCC
CNAAANTTTNANNTCNCNTNAAAAACCCTTTTTTNNGNNGNGNAAATTTNNTATNTTTCC
CCCCNNNGGGGGGNGGGGGGGGGGGGNNTNNTTTTTTTTTTTTTTTTTTTNCCCCTCCNN
NNAAAAAAAAAAAAAAAAAAAA
Sequence 372
CCGCGGTGGCGGCCGAGGTACCTGAGGAACATAGATTCTCTGCATCTTTCTCAAGGGGAA
CCCTCTCCAGCTTCCCTGGTGTGACCCTTCACATGCCAGATTGGGTAGGATCACTTTGAA
CTGCCTGAAGTTCAGGAAGGTCATCAAGCTC
Sequence 373
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTACATTTCCATGGGCCCT
GTTCCCATTGATGTATACTGCTTCCTTACTAACAGTGAGGGATGACTTTCATCAGTCTTT
TATCACCTGAACAGTCTTCCGGCCATAATGATAGTAACTATAAGCTGATGCAGCTGTGGT
GAAAGCTGTAAAACACCTTTTATGGAAGAAAAGAAATAAAATGTAGTTGTCAAGTCTAAA
AAATAGTACCAACGGGAATCATAATGAATACATGCNATGAATTTAAAATGNNAAAATGAA
TCTAAAAAGTAAAAAGGGCTCTGNGGTGTAATTTTTCTTAACTACAANAGTCTAAATACA
CTGCTTTTCTTTAAGAGTTCATTTTAATTAGNAACCGTCAAACAAAATTAT
Sequence 374
ACTACTCAGGGCGAATTNGAGCTCACCGCGGTGGCGGCCGCCCGGGCCGCGTGAAGAGGA
AGAATGCCNNGAATTCCAGGGTGGGGCTGGGGCTGGAGACGACGAGGAGGAGGATTAAGT
CCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCCTGCCAAATAAACAGGATCAG
CGCTTTACACCATGTTGTTACATGTAAACAAACTTCAATTTGAAGTGCAGCTATTATGTG
GTATCCATGTGTATCGACCATGTGCCATATATCAATTATGGTCACTAGAAAGTCTCTTTA

Table 1

TGATACTTTTTATTGTACCTCGGCCGCTCTAGAACTAGT
Sequence 375
CCGCGGTGGCGGCCGAGGACAAATGTGGTGTGTCTTCCAACTTTCATTGAAAATGCCATA
TCTATACCATATTTTATTCGAGTCACTGATGATGTAATGATATATTTTTTCATTATTATA
GTAGAATATTTTTATGGCAAGATATTTGTGGTCTTGATCATACCTATTAAAATAATGCCA
AACACCAAATATGAATTTTATGATGTACCTGCCCG
Sequence 376
ATACACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACGA
GTTCAGCCTGACCCGTGAGACAAAGAAGCACGTGCTCTTTGGCACTGTGGGGGTGCCTGA
GCACACATACCGCTCCCGAACCAACTTCACCAGCAAATACAACATGAAGGTCCTCTACTT
ATCCGCCTTCACTAGCAAGGACGAGGGCACCTACACGTGTGCACTCCACCACTCTGGCCA
TTCCCCACCCATCTCCTCCCAGAACGTCACAGTGCTCAGAGACAAACTGGTCAAGTGTGA
GGGCATCAGCCTGCTGGCTCAGAACACCTCGTGGCTGCTGCTGCTCCTGCTCTCCCTCTC
CCTCCTCCAGGCCACGGATTTCATGTCCCTGTGACTGGTGGGGCCCATGGGAGGGAGACA
GGAAGCCTTCAAGTTTCCAAGTGCAAGAAGATCCTACTTNTTTTGAGTCAAGCTGACCCC
CTCCCCCCAATCCCTCAAACCTTGAGGGAGAAGTGGG
Sequence 377
CNGGTTCGCTGTGTGCCTAATACATGCATGTTGAACGGGATGTAGCAATACATTCAGTAG
CGAATGGGTGAGTAACACGTACCTAACCTACCTTTAAGACTGGGATAACTATTGGAAACA
ATAGCTAATACCGGATATAGTTATTTATCGCATGATGAGTAATAGAAAGGAGCTTCACAG
CTTCACTTAAAAATGGGGGTGCGGAACATTAGTTAGTTGGTAGGGTAATGGCCTACCAAG
ACGATGATGTTTAGCCGGGCCGAGAGGCTGTACCCTCGGCCGCCCGGGCAGGTACAAGAG
TGATGGCAATGTGACTGGAACAGAAATAGTTTCTACCAGGCACACAAAAGCTTCTGTAAG
CCCCGTANTTCCGTCCTGCAAAGGGCCTTNAGTGGGAACCAGGTCTGCAGACCCCAGTGG
GCANAAAGACCGGGTGGAAGCAGG
Sequence 378
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAGGAGAAA
AACTATGTCTAAGGAGGGAAGCACATAATAGAATTCTATTATTACAATAGAATTCTATAA
ATACAAAATTGGATAAACTTTATCAGAAGCAGGTGTTTGTCACCATTTTATATGTGAAAC
TCAGGAAGTTCTTGATTTTTTAAGAGCTGTATTCCTTAATCTGGTTACAGGCTATAAAGG
AGATAATCATTTACATGATCATATTCTCAAACAGATGGTCACCAAATGGAATCAAAGGAC
TGATTTGATGTAGCCGGTAGTATGATAATTTTTTGTAGGTTAAATGGAAAAATACNGGATA
GGATCCNAGAAAAATAANGTAATTTTNCCAGGTAGGCCNGGTTTAATAAAATTACCAGGA
CCTAGGAATAAGCCAATTTTA
Sequence 379
CCGCGGTGGCGGCCGAGGTCCCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTGACAGCAG
CATCTGTTTATTGACAATTCCAGGTCATTCCTAACACGCCGNANCAGGGCTNTGTACCTG
CCCGGGCGGCCGCCCGGGCAGGTACTTCATGAAGCANACCATTGGGAATTCCTGNGGCAC
AATCGGACTTATTCACGCAGNGGCCAATAATCAANACAAACTGGGATTTGAGGATGGATC
AGTTCTGAAACAGTTTNTTTNTGAAACAAAAAAAAATGTCCCCTGAAAACAGAACCAAAA
TGCTTTTGAAAAAAAANNGGGGCCTTACCAGGCAAGCCCAATNAATGCCCCGGGGCACAA
AGNAAGGCCCAATTGTTNGGGGTAAAAANAAAAAAGGGGGGAAAATTCCCCATTTTTTTNT
TTNTTNTTTNAAAANANCCCGGGGGGGGGGNCCCCCNTTTTANAAAAANTTGGGGGGGGAA
AAAATTNNTTTTTTTTTGNAANAAAAAANCCNCGGGCCCCNANAAAAAAAAAAAACCCCC
CCTTTTGANGGANCCNCCCNNNNTAANANAAAAAAAAAA
Sequence 380
ATTGGAGCTCACCCGCGGGGNCGGCCGCCCGGGCAGGACCTCTTTGCCTTAAATTGCTTT
TTAAGTTCTAAGATTGTAGAATGATCCTTTCAAATTGTAATCTTTTCTAACAGAGATATT
TTAATATACTTGCTTTCTTAAAAAACAAAAAAACTACTGTCAGTATTAATACTGAGCCAG
ACTGGGCATCTACAGATTTCAGATCTATCATTTTATTGATTCTTAAGCTTGTATTAAAAA
CTAGGCAATATCATCATGGATACATAGGAGAAGACACATTTACAATCATTCATTGGGCCT
TTTATCTGTCTATCCATCCATCATCATTTGAAGGCCTAATATATGCCCAAGGACCTCGGC
CGCTCTAGAACTAGGNGGGATCCCCCGGGCTGCAN
Sequence 381
TAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGNNCTAAGCCCCAGGACCNATTGG
TAGACGACNTANNANCNNAGGCGCATNNCACTGAAACANGTCAGNGTATATGNTGGCACG

Table 1

TATTAAANTTAAGATGAANGNNGAAGCAAAAAGATTTACAAGAATTAGCNGTAACAANAT
TGATGCTNAAGAGACATNATTGTACCTGCNCN
Sequence 382
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCCGGCAT
TGTCTTAGGGGTTAATAAGGTTAACCTATGGTTACAAAACAAAGGGTAACTTGAAGTATT
GAGTAACTGCTTCTGTAATATGGGGGAGAATAAATTTTTAAATTTGGTTTATTTAGAGGA
AAAATTTTGACTTAAATTTAACACTGATTTGGCACATAAGCATTGAGAGTGTATTTGGTT
AATGGTTTAGAAGCAAACCAGCAAAGGAAAAAAGCAAACCCTAGCAAACCTTTCACAAAT
GTTAAAGAGACACTGCTCCATTTTAAGCAGTGCGGGTCATTTTGAGTTTAATGAATCCCC
ATCAAATGGGTGGTATAGTAGATAGCTATGGTGTGGTTTGTAAGGGTTTGTAGCTTGCAA
GGACGTGCACTAATAATATTTTATATGATCTTTCCTGGTTGGCAGGACCCATGGATGAA
Sequence 383
CCGCGGTGGCGGCCGAGGTACACGGATATCACCTGAATTATTAATGAATGCCCAGGAAGT
AATTTTCTTCTCATTCTTCTAAAACTACTGCCTTTCAAAGTGCACACACACGCGTCCACA
TACACTGCATTCGTTGCTCCAGTATAAATTACATGCATGAGCACCTTTCTGGCTTTTAAG
CCAATATAATGGGCTGCAAAATGAAGACACCAGAGTGTATGCATACAAATCTCACTGTAT
TAAAGATGCAGGTTTTCTAATGTACCTGCCCGGGGCGGCCGCCCGGGCAGGTACCCCACC
TCCCTAGCCCTCTGTGCTTCAAGTCTTCCTTTGACCCCCTTCGCTCTCCCACAGCAGGGC
TCTCAGCTGCCAGCCAACCAAGCAGGATGGTGCAACAACCAGACCTAAAGGAAGGGACCT
GGGGAAGAAGAGAAA
Sequence 384
CCGCGGTGGCGGCCGAGGTACACATGCATGCATACACACCCATACAAACATCTGTGTGAG
GGCAGTTCTGGAGATGAGCAGAGAGAGACCGGAATAAACTCAATCTTTTCTTTCCCAAGC
TCCTAGCCAACACTATCCTTGGGAGAAAGAAAATTTGCAGAAACTGCTAAGACCAAGTGT
GGAGATGTCAAGCTAGTTCACACTCTGAGGCTCAGAATATGTAGGACATGCACAATTGTG
CAGTCCTTTGGGATTGGGAAGTGAAACAGTCTGTGATCCCCTACCTTCTAGGGAACTAGG
ACCTAGGAAGAGGTAAAGATTATCAGGTATGCAAAGCGCCCCAATTCTTCTGCTGCCATG
GGGGGGATTTTACCCCAACTCCAGGGGTTCGAGGCCAATCTGAGAATGGCTTAA
Sequence 385
AGGTACCAGACTCTTATTTCCTGCAGCTTTTGAGAATTCTAAAGATACCTGAGTCATTTT
AAATAAATTTCAGCTTTCTTTACCAAACTACCCTTAACCGGATTCTCCTTGAAATGACAT
CACCTGACACCCATGGCATGCTGCATGCCCACAGCTAGATTACTTTTTAGTGCGCCCACG
CACTTCTGCTTTTATTAGGTGAGGCAGAATCAAGATTCCCTTTTGTTGGATCTTGAACCT
GTTCATGCCACTTTGATATTCTAAATTCATACATAAACCAATGAAATATATGTGTTAGAA
AAATTGCTATTTCTAGCTGGACGCAGTGGCTCATGACTATAATCCTACCA
Sequence 386
CCGGGCAGGTACACTGCGTTCCAGGCTGGTGTATGGGGTTGATCCTTATCGGTCACAGTT
AGATTAGCTACTATGATGTCTACCCTGTTCTCAGGAACTTCACCATAAAACGTCATGGCA
GTAAACTCTGGAGGATTGTCATTGACATCTGTCACTGTGATGACGGCCGCCCGGGCAGGT
ACATGGTTGATTTTGTGCTGTTGTTTGGACTGTAACATCCATGTTGTCAATACGTATACC
TTGTAAGTGGATAACTTTTCTTTTTCCCAGGCCAGAGAATTCAAATTGTTAAAACATTGG
CATTTGAAGAGGAGAACAAAATGTAGCATGATGTATTTAAAGTAAGGCCTTTAGTAA
Sequence 387
CCGGGCAGGTACAGGAGTTTCCCTATTTTGGTGTTCAGCTTGAAAAAGGACTTGTCAGAA
TCAACTGTGTCATCAAAATTTAAGTAATGTGCATTGAAAATAAGGTTGATCATGGGAATA
TGCAGAATTTCCAATGTATTTTTAAATACAAATAAAATTGTAATTTAGAATTTTTAATCT
TAGGTTTCTTGATTAATTTATAAGAGATCAATTATTGTCAGTCTTTTTTGTATGTTTTTT
AAAAACATAGTCCAGAGCATGGGCAGAATTGACACCTCTCTTTTAAGTGAAATTTGGATT
GCTCACAAAGCACTAGGAAATGTCATGGGGTTCAAATATATATCCTACA
Sequence 388
AGGTACCCAGTATTTCTAATTAAATTTCACATGCTAAATTAATGAAAGTAACAAGATTGT
AATTTTTTAAAGTCAGTTGATTAAATGCAATAAATATTGGGTTGCTCAAATATGCCACAA
ATAACTCGAAATTTTTCATTTACTTTCAACAGCATAAGATTCTTTAATATTTAGGATTGA
CTGNTTCTTTCCAGTTAAGCACTGAAGGATTATGTCTTGTAGCTTCCCCAAGAGAAGGGG
AAGGAAAAAAAAGCACTATGTTAAGGATAATACAGAACTCTTTTGAACTATTTTGGGTAG
TACCCTGCCCGGGCGGCCGNCCGGNCAGGTACCAGTGGAGG

Table 1

Sequence 389
CCGGGCAGGTACTCTTGGATGTGTTTTCTCACCAAGATGAGCAAAGAAAGGTTTGCACAG
AGGAGTGTGAATGTGTGTTTGTTGCTGGCTGAATGGCAATAGATGTCTAAGGTGGATTCA
GTGTCTGGCACACTGAGACACCTCCAAGAAGGAGATTGATGCATCANGTTCAGTTTAACC
TGGAATATCTGACTACCCCTGAATCCACCCAGAAAGGGGGCCCAACACCCTTGTCCATTT
ATGGGTATTTTTTTTCGAAGTTATTAAGCATATTCCTTTTCCACGAACCTCTTCTGTACC
T
Sequence 390
CCGCGGTGGCGGCCGAGGTGTTTGAGTTTGGTTTGGAGCAAAACTGAGGTAGTCCTAACA
TTTCTGGGACTGAATCCAGGCAAGAGAAAGAAGAAAAAGAAGAAGAAAAAGAGGAGGAAA
AAGGTAGGGAGAAATAAAGGGAGGAGAGAAGCACAGTGAAAAAAAAAAAAAGTCCCTTTT
CGACATCACATTCCTTGTGNTTTCCCTCAGCCTGGAAAACATATTTAATCCCCAGTGCTT
TTTACCGCCCCGGAAACAAAGAGACTAAGCCAGACTTATGGGGGAAAGGGNAGATAAGAA
GGATCCTGGAACTTTNAAG
Sequence 391
TGCTTCCTTACTAACAGTGAGGGATGACTTTCATCAGTCTTTTATCACCTGAACAGTCTT
CCGGCCATAATGATAGTAACTATAAGCTGATGCAGCTGTGGTGAAAGCTGTAAAACACCT
TTTATGGAAGAAAAGAAATAAAATGTAGTTGTCAAGTCTAAAAAATAGTAGCAACGGGAA
TCATAATGAATACATGCAATGAATTTAAAATGTAAAAATGAATTTAAAAAGTAAAAAGGG
CTCTGTGGTGTAATTTTTCTTAACTACAAGAGTCTAAATACACTGCTTTTCTT
Sequence 392
CCGGGCAGGTACCGCATCAGCAAAAGTGCCTGGCTGAAGGACACTGTTGACCCAAAACTG
GTGACCCTCAACCACCGCATTGCTGCCCTCACAGGCCTTGATGTCCGGCCTCCCTATGCA
GAGTATCTGCAGGTGGTGAACTATGGCATCGGAGGACACTATGAGCCTCACTTTGACCAT
GCTACGTCACCAAGCAGCCCCCTCTACAGAATGAAGTCAGGAAACCGAGTTGCAACATTT
ATGATCTATCTGAGCTCGGTGGAAGCTGGAGGAGCCACAGCCTTCATCTATGCCAACCTC
AGCGTGCCTGTGGTTAGGAATGCAGCACTGTTTTGGTGGAACCTGCACAG
Sequence 393
AGGACAAATTCAGTCCCAATACTCAATACGTATTATAGATGACTATGAGTGCAAACCTTA
GGATGTGATTTTCTGAATAATTGTTCTTTGTAGGATTTGGTTACATTATTTAAAATGAAA
AAGATCTAGTTTTAGTGTGAGCTCAGTAATGTTAATTGGTTAAGTTCATTGTGAATCTTG
AGTTTTAGATAAGNAGTTATTTTTTTCAATATCACTTCTGTTTTTAGTGATATTATATCA
AGAAACAACGTATTCAAGAGCCATGGCTGACAGTGCCAGATATACTTAGGGATAAACATC
AAAATGCAATTATAGTTGCTATAACGTTAGATACTCGGAATCAAAATTT
Sequence 394
ANACCCACTCACTNNNAGGGCGAATTGGNAGCTCCACCGCGGTGGCCGGCCGAGGTACAG
TGATAGGTATCTTTCTTTGGAGTTTTTTTTTTGTGCATATGTGTATAGTTTTATGGGTTC
TGAGTTGGTGACCAGTAAGTTGCATGTAGTGCTGGCACTTACTTAATAACTATTCATGAT
ATTGTTAATAACTTGTTATAGGATTGTATTCCCAATTACAGTCTCTAAGATTGTAATTGA
TATTATCTGAGAGGTAGTGTGACAACTTTCTTTTGTTGTTACATTAAGCCGAAAACATAA
TACTAATAGACAACTAACAGTTTGCTTATCAGGCACATCAACTAAGGCACCTCCCCCCAT
GCTAAGTTTCTCCTGGATATATGGAAG
Sequence 395
AGGTACATAATAAACAAGTTTCAACCAGCAAGAAATTACTAATATTGACTGTGGAGTTTT
GGCTGTTTTAATAGTTCTAACTCATTATTCCGTAATTCAACACAGCACTACCAACACAGC
TGGCAATGACAAGACTGGGAGTATCAAACTAGGATTATTAGGCACAATCCAGGTGGCCTC
TGCAGCTGTGTCTCTCTTTCCTCTTCTGTTCCTATAAGGGCAGGGCCTCCTTCAGGAACA
GCCACCAGTGAGCTTCCTCCTCCCTTCTGGTCAGTTGGATTTGTCACTGTTCAGCATCTT
TTCGATGATTTACCTGCCCG
Sequence 396
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTCCATGGGCCCTGT
TCCCATTGATGTATACTGCTTCCTTACTAACAGTGAGGGATGACTTTCATCAGTCTTTTA
TCACCTGAATAGTCTTCCGGCCATAATGATAGTAACTATAAGCTGATGCAGCTGTGGTGA
AAGCTGTAAAACACCTTTTATGGAAGAAAAGAAATAAAATGTAGTTGTCAAGTCTAAAAA
ATAGTAGCAACGGGAATCATAATGAATACATGCAATGAATTTAAAATGTAAAAATGAATT
TAAAAAGTAAAAAGGGCTCTGTGGTGTAATTTTTCTTAACTACAAGAGTCTAAATACACT

Table 1

GCTTTTCTTTAAGAGTTCATTTTAA
Sequence 397
TTGTCTGAGCTACTGGAATGAAGTTCACAGGTCTTGAAGACCAATATTATTTGTCAATAT
GTGGGGATAACCTGTAGCTGCATTCATGAGGTAGCAAATAGCAGTTTTGGCCTGTGGGGT
GAACAGCTAAACAGTGTTCTGGCATCAGATAACACGGCACAAAGGGATTGTGTCTAGCTC
TTTTGGAGAAAATTTATGTCCAGTCTCAGGATCTGTGGACAATAACGGAAAACTTTGAAT
ATTCCTGACAAGTTGCCATATTAGGAGTCAGTTCTTTACTTCTCTGAGATTCCCAGGTCA
TCCATGATTTTTTTTTTTTTAATTTGAGACAAAGCCTCACT
Sequence 398
NACACCCACCGCGGNGGCGGCCGCCCGGGCAGGTATGGNTCCGNGGATGCAAAACCCCTG
GGCCGCAAGAAGGGAGCCAAGCTGACTCCTGANGAAGAAGAGANNNGAAACAAAANCCGA
NCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGCNNGNACCCCGGCCGCCCGGGCAG
GNACCNGACAGNAGTTTAAGANGAGAGAGGNNAGGGNCCACNCGGNNNAAGCAAGAGANA
GGNCGGGGGGCNNNNGGNNNAAACNANGGCCAGGAGANNGGGCNAAAGAGAAGACGACGA
GAGNAAGGAAANAAAG
Sequence 399
CTCACCGNGGTGGCGGCCGCCCGGGCAGGTACACGGACCGCACGGAGAAGCTGAGGCCTG
AGATGGAGGGGCCCGGCAGCTTCACCATCTTCGCCCCTAGCAACGAGGCCTGGGCCTCCT
TGCCAGCTGTGAGATGACCTCCGTCTGCCCGGGGGACTCTTATGGGGAACTGCCTTACTT
CCCCGAGGGGTGGGCATGATGAATGGGAGCCTGCAGTCATTTCCTACTGTTTCAGGAAGC
TTTCTCCTTAACCCCTTAGAAAAGGCTGTGGAACTTGAGCTAAAATATGTCTTACCAGGT
TGCGTCTAATGCCCCCCGTTCCCTACTGGGCAGAAAGACTTGGGTGCTTCCTGAGGAGGG
ATCCTTGGCA
Sequence 400
AGGTACTGCTTAATTCTTTTTTCTCCCTCCCTCTAATCCTTTTTTTGACTGTCACATTTG
TCCTAATAGCAAGTTAGGACATGTCTGTTGGCTCTCGAGATTCATGGGACAGCAATGCAG
CAAATCTAGCCATAGTATTTGCTCTCTCTAGCCCTGCCCTTTTTCCTGTCCAGTGAATAT
CAAAACAGGTAGAAAACATGGCCTGAAGGATTGTCTCTGCCACCACCTCCATATGCATTT
TACCAGTAGTCCTGTCATACAGGTTGAATTAGTTTTATGTAGAACAAGTCATGAACACTT
TAGTGTGGAAAAATAGTATTATATAAAGCTTAATATTAA
Sequence 401
AGGTACATTATCAGANACAGTGGTTGACCTCTTTTTTCCTTTACTCCCTTTTCATCTGAG
AGAGCCTTTTAGAGATCCGGAATCATTTGCTGTCTGCAATTACTATAGGCTTTGGCTCAC
AATTCTGGGGAAAATGCCAATTGAAGGAACCCTGCCTATACATTTTATTTTCTTTTTCTT
CGAGACAGACAACCTCAAAATAAGGTCCAAATATTNGGTTCCTTNAAATGGTGTCAAAAA
GAATAGTATTATATGAGGAGGATAGTTATCACAGAATAAGAACTAAAATCCCATTTTTTT
TTTTTTAGGAAAAAAAGACCTTCNATGATGCAGGTGTNTGTGTATAAGGAACTA
Sequence 402
AGGTCTCAGCGTGGCTACAAGTAACTGTGGTGTGGAAGCAGAGTAGAGAGAAAACTTGTT
CCTCATTAGAGAGAGAGAGCCACACTTCTCACTGCTCACAATGAGAGGCCAAAGATTACCCT
TGGACATCCAGATTTTCTATTGTGCCAGACCTGACGAAGAGCCTTTTGTGAAGATCATCA
CTGTTGAAGAGGCAAAGCGCAGGAAGAGCACATGCAGCTACTATGAAGACGAGGACGAAG
AGGTGCTGCCTGTCCTACGGCCCCACAGCGCGCTCCTGGGGAATATGCACATCGAGCAGC
TGGCCCGACGCCTTCCTGCAAGGGTGCAAGGG
Sequence 403
AGGTACATTTCCATGGGCCCTGTTCCCATTGATGTATACTGCTTCCTTACTAACAGTGAG
GGATGACTTTCATCAGTCTTTTATCACCTGAACAGTCTTCCGGCCATAATGATAGTAACT
ATAAGCTGATGCAGCTGTGGTGAAAGCTGTAAAACACCTTTTATGGAAGAAAAGAAATAA
AATGTAGTTGTCAAGTCTAAAAAATAGTAGCAACGGGAATCATAATGAATACATGCAATG
AATTTAAAATGTAAAAATGAATTTAAAAAGTAAAAAGGGCTCTGTGGTGTAATTTTTCTT
AACTACAAGAGTCTAAATACACTGCTTTTCTTTAAGAGTTCATTTT
Sequence 404
AGGTACTCTTGGATGTGTTTTCTCACCAAGATGAGCAAAGAAAGGTTTGCACAGAGGAGT
GTGAATGTGTGTTTGTTGCTGGCTGAATGGCAATAGATGTCTAAGGTGGATTCAGTGTCT
GGCACACTGAGACACCTCCAAGAAGGAGATTGATGCATCAGGTTCAGTTTAACCTGGAAT
ATCTGACTACCCCTGAATCCACCCAGAAAGGGGGCCCAACACCCTTGTCCATTTATGGGT

Table 1

ATTTTTTTTCGAAGTTATTAAGCATATTCCTTTTCCACGAACCTCTTCTGTACCTGCCCG

Sequence 405
AGGTACCTCCTCATGACATGGGGTTTAAATAAACTACAAGTTCTATTACCTTTTTTATTT
TCCAGGGAAAAAGAAACTTGGGAAGGCTATTTTACACAATTAATTACACATTGACACCAC
AGTTCTGTTTGGATAAATTGGATACTGTATCCTGGAGTTTAGACAGGGAAAAGTGATCCC
AATGTTTTACTTTCAGGTGTAAGATTTAAAACAAGAATTTGGACCAAAATGTTCATCACT
GCAGTTACTTTCTGCTTTCCATTTTTAAGCATGTTATCTTCATGTAGTCCACCTGAACAT
CAACAGTTCAGCCTCTACAGAGTTTCTGTAATA
Sequence 406
AGGTACGTTCAGATGTAGCCATGACTGGAGAAATTACACTGAGAGGTCTTGTTCTTCCAG
TGGGTGGAATTAAAGACAAAGTGCTGGCGGCACACAGAGCGGGACTGAAGCAAGTCATTA
TTCCTCGGAGAAATGAAAAAGACCTTGAGGGAATCCCAGGCAACGTACCTGCCCGGGCGG
CCGAGGTACTACTAATTCTACAATGCCTTTCTCTTTAGTCAGTATTAAAAATCTTTTTTA
AAGTATTGGTATGAAAACAAATTTTTGTTGCCCTGATAATGGGAATTTTAAAACTACCCA
CAGTTTAAGAGAAAACATAACTTGGTAAAAAAGGTAGCCAATAAAACCACA
Sequence 407
AGGTACTCAGGGGAAACTGGAAGCCGCTGGCTCTTTCAATTCTGATGATGATGCAGAGAG
CTGCCCAATCTGTCTCAACGCATTCAGAGACCAGGCCGTGGGGACGCCGGAGAACTGTGC
CCATTACTTCTGCCTGGACTGCATTGTCGAATGGTCCAAGAATGCCAATTCCTGTCCAGT
TGATCGAACTCTATTTAAGTGCATTTGTATTCGAGCTCAATTTGGTGGTAAAATCTTAAG
AAAGATCCCAGTGGAGAACACCAAAGCGAGCGAGGAGGAGGAGGACCCGACCTTCTGTGA
GGTGTGCGGCAGGAGCGACCGTGAGGACAGGCTTTTGCTCTGC
Sequence 408
AGGTACCAGTTCTAAATGGGCCAAGATCCTGGGGACGCCAAAGTTATTGGCTGGATGGCT
GATGAACTGAGGCCAACTAGAGACTGGTAGCACAACTGGGGACCACTTAGGGATGGAGAG
TGAACACATCCTGGGCCTGGATAGGACGGGGAGATGGTGAGTGATGGTCAGACGTGGCCC
TTGGCTCTCACTGTTGTTATCCCTCTCACGTTCACATAGGGGCACACGCAGGGCCAGCTT
CATGGGTGTGCAACCTGTGCAGCCACTCAGAAGGGCCCCATGCTGGGTTTAATGCTTGGC
TGTCACCATCATGAAATTAATAATGGTTGAACAGGGGCCCTGCGTT
Sequence 409
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAATAAAAATTAG
CAAACAATTATTCTAGGGATATTTTCAGATTTTACTTCATTTCTTGAAATGCGTGTGCCA
TATGCAATTGCATTTCTTGTGCCAAGAAACTAATAGAACTTATTTCACTTTACCTTTTTT
TAAAATGTGAATTTAAGTTATTATAGTTCAATTTTATGGCCTTACAGATGGCTTTTATTT
TGTTTGCAGCTGACACTGCAGTTCCTTTCATGCAAAATACCATAAACTGTTTGATGAAAA
TCATGCCCCTAATGGAAACTCTCTAGTTTTTCCATATAACTATCCTACTGTACCTGCCCG
GGCGGCCGCTTCGACCAACATGTGGTGAGCATTCCACGGGCGCATGAAGTCTGGGTGCTG
TGCTCGAGTCTCTGAATATTTTGATAGGAAAGCGACAAGAAAATTCAA
Sequence 410
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAAATAAAAATTAGCAAA
CAATTATTCTAGGGATATTTTCAGATTTTACTTCATTTCTTGAAATGCGTGTGCCATATG
CAATTGCATTTCTTGTGCCAAGAAACTAATAGAACTTATTTCACTTTACCTTTTTTTAAA
ATGTGAATTTAGTTATTATAGTTCAATTTTATGGCCTTACAGATGGCTTTTATTTTGTTT
GCAGCTGACACTGCAGTTCCTTTCATGCAAAATACCATAAACTGTTTGATGAAAATCATG
CCCCTAATGGAAACTCTCTAGTTTTTCCATATAACTATCCTACTGTACCTGCCCGGGCGG
CCGCTTCGACCAACATGTGGTGAGCATTCCACGGGCGCATGAAAGTCTGGGTGCTGTGCT
CGAGTCTCTGAATATTTTGATAGGAAGCGACAAGAAAATTCAAACTGCTCTTTGCTGACT
ACTGGNAAGTGAAAAAGATGCTTCAAGGTTTANCCATTCAAAGGAAACCATTAGGCCTTT
TCAAAAAAC
Sequence 411
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAGTTTCCCTATTTTGGTGTTCAGCTTGAA
AAAGGACTTGTCAGAATCAACTGTGTCATCAAAATTTAAGTAATGTGCATTGAAAATAAG
GTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTTAAATACAAATAAAATTGTAAT
TTAGAATTTTTAATCTTAGGTTTCTTGATTAATTTATAAGAGATCAATTATTGTCAGTCT
TTTTTGTATGTTTTTTAAAAACATAGTCCAGAGCATGGGCAGAATTGACACCTCTCTTTT

Table 1

AAGTGAAATTTGGATTGCTCACAAAGCACTAGGAAATGTCATGGGGTTCAAATATATATC
CTACACAACTGGGCAATACATTTTTGTTTGATTTTTAGGTCTGTGTATACATTAACAGTT
CATGTAATTAATACCTGATCATTTGGGATAAT
Sequence 412
CCGCGGTGGCGGCCGCCCGGGCAGGTTTGGGTCTGAAAGTCGATGAAGGACGCAGATTAC
CTGCGATAAGCTTCGTGGAGTTGGAAATAAACTATGATACGGAGATTTCCGAATGGGGTA
ACCTAACTGAGCAAACCTCAGTTGCATTTTGATGAATCCATANTCAAATTAGCGAGACAC
GTTGCGAATTGAAACATCTTANTAGCAACANAAAAAAAAAAAAAAAAAAAAAAAAAAAAGC
TTGNAACCTN
Sequence 413
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTACACTCCAAGGTAACAGAATAATAATACAA
TCTTCTATTTATTGCTCCCTATCAATGTTCTAAAAACCTTACATTTATTTAATCCTCATA
AAAATCCTGTGAGGTAGGTAGTATTATCATCCCTAATTAAAAGATGAGGAAATTGAGACA
CAGAGAGATTAAAATTGCTCAAGGTTACAAAAACAGTAGGTGTTAGAGCAAGAATTTAAA
CCCAAGCAAGTCTGACTCTAGAGCCCAGGATTCATCACAATATTCATTTCCTATGAGCAA
ATCTCAAGGTTTTTGGATATCTATAGTAAACCATTTATACTTCTAGTCAAGTAACACATA
TGAAAATTCATGTCCACACCATGGGTGAAAGAGGTTGTTCAAAGAATAAAATGAATGCCT
TGAAATTTTGGCAGATGGATACTACCATGGATAATA
Sequence 414
GCGGNGGCGGCCGAGGTACTATGAAAAGTTGATTGTAGCACAACTGTTCAATNAGTAAAA
GGTCTTCGGCAAATTCCCTTTAGAGTATACTTTCTATAAACTACATGTTCCACAAAAAGG
TCAATTATATATACAATTGATTTGTTTTACTTAATCTTATTTGCTCAGATCTTGCAAATG
CAATGAGAATATTAAGCCTGAGGCTAGTTCTCAGTGTATAGGTTTAACAAATTAAGGCTC
ATTTTCCCAAATCAAAATAGTTTTTAGTTTTCCTTTTAAATTATGAATTACATTCATAGT
ACAAGAAGAAATGCTTAAGGAAGAATTTCAAAAGAAATCTGAGCNGTTAAATAAAGAGAT
TAATCAACTGAAA
Sequence 415
CCGCGGTGGCGGCCGAGGTACTTGGCATATATTAGGCCTTCAAATGATGATGGATGGATA
GACAGATAAAAGGCCCAATGAATGATTGTAAATGTGTCTTCTCCTATGTATCCATGATGA
TATTGCCTAGTTTTTAATACAAGCTTAAGAATCAATAAAATGATAGATCTGAAATCTGTA
GATGCCAGTCTGGCTCAGTATTAATACTGACAGTAGTTTTTTTGTTTTTTAAGAAAGCAA
GTATATTAAAATATCTCTGTTAGAAAAGATTACAATTTGAAAGGATCATTCTACAATCTT
AGAACTAAAAAGCAATTTAAGGCAAAGAGGTACCTGCCCG
Sequence 416
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGAGCTTAAATAA
TATCAAAATGCAAATATAGATTGGGTGCACTGTTAAGCTGAATTGCAAATTATGGCAACA
CACACTGGACTGGGGTATACCGTTGCTTTGATATCACCATTTGTTTGTTTATGTCATGCA
GACCACAATAGTCAATCTTTTGTTTTTCTTTTTTGTACCTGCCCG
Sequence 417
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACTGCCATGGCCA
GTAAAAATGAAAGTGGATAGATACGGAAATACACACAAAGTGAATTTTGCTAAAACAAAT
CAATGGCACTTAAGACATTTCTATTCTAAAAGGCTTATTCTTAAGGCTTTTCTATTCTAA
AAATTTGCAATGTTTTAATTGAATATTANATTTTGTAAATGTGGTTTATTTGTCACGTGG
ATGAAATATCAGGAAATAACTCACTGCTCAGTGGAAACTCTCATGGCTGNTGTTTTTTGT
TGTGTTGTTTCAGGATTGGAGGTTTTAAAGCAGGAAACAGCAGTTGTTGAAAACGTCCCC
ATTTTGGGACTTTATCAGATTCCAGCTGAGGGTGGAGGCCGGATTGTACCTNGGCCGCTC
TAGAACTA
Sequence 418
ACTATAGGGCGAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACTTTATTATATTGGGTG
TCTTGTCTTTTTTGGGCTTTTAGTTAGCTAATGAATGAATACATTAGACACTTTTGGGTT
TTAGTTGGGATTTTACATAGCTTGCATTTTAATTCTTTGGTTCTTTGCTGTTTCTATTAA
CCCACAGCATTATTTTAATAAA
Sequence 419
CCGGGCAGGTTTGTGCTATTCATTATTAAACACTAAAACTTTGGCGGNTCTTGCATAACA
TTGTCAGATTTTTTTAGTGTATTTCTGTGAAGACATTTTTTTTCTTGTCATTCCTTTTGT
AGTANTTGCTGCTTNGGATAAAAAGTTTGATGTGTGATTTTTTTATTAAACAANATAGTA

Table 1

AACCCTTCAATTATAAGTTAGTNCTTTGGTGGAAGTAAGGATGGTTTGTTAGGACNTTTA
TTAGGTTCTTTAAATTTCATTTGGCCACCAAACCGTGGACTGGTTTGTAAGTCTTAAACC
ACCCCAAAATTAAGTGGTCGTTNGGCCAAATTAACTTTTTTTTAAAAATGGGCTTGNAAN
AACCACCCTTAATAAAATTNGTTNCATTCAGNAAAATTATTCTTTGTTCANCNTGNCTTC
CTGGTTTGCNCAAAATACCNTCTANNNAAATTAGGGAAACTTTTAANNACCGTTTATGNT
TCCTTGAAGGTTCCCCCNTGGGAGGAANCCACCATTGGCCTTAANAANGTTCCCNAATTG
GAAAAAAAAG
Sequence 420
CCGCGGTGGCGGCCGAGGTACTTTTGGTTATTTTTCTGTCATCAAACAAAAACAGGTATC
AGTGCATTATTAAATGAATATTTAAATTAGACATTACCAGTAATTTCATGTCTACTTTTT
AAAATCAGCAATGAAACAATAATTTGAAATTTCTAAATTCATAGGGTAGAATCACCTGTA
AAAGCTTGTTTGATTTCTTAAAGTTATTAAACTTGTACCTGCCCGGGCGGCCGCCCGGGC
AGGTACACAACTGGAAAGACTGCTGTAATAACACAGCCTTGTTATTTTTAAGTCCTATTT
TGATATTAATTTCTGATTAGTTAGTAAATAACACCTGGATTCTATGGAGGACCTCGGTCT
TCATCCAAGTGGCCTGAGTATTTCACTGGCAGGTTGTGAATTTTTCTTTTCCTCTTTGGG
GATCCAAATGATGATGTGCAATTTCATGTTTTAACTTGGGAAACTGAAAGTGTTNCCATA
TAGCTTCAAA
Sequence 421
CCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTTTTTTGCAAAGATTTTTTTTATTTC
TACTGGGGAGGGAGGAGGATAAATAGAACTGTTTTCCAATTTGCTCTCCACTGTATACAC
ACATACCCACACACATACATAAACATACATNCACCAAAAATACCCCAAACAAAAAACAAA
AAAACCAGGAATCAAAAACCAAAACACCCTCAAACTGCACCAATACTTCATATTTTGACC
AAAAAAATATCCTGGGAGGAAGTGCAAAATGCAAAATCAAATGACCCGAAAAATGCTGAA
CAAACAGCATTATTAATATACAAAATATTTATATTACTGAACTAGTAACAGGTGATGTTC
TCCATGTCTGTAAAACTTTGGAACCACATAGCTGATTTGTTAAATCTAGTCCATGCCAGC
TTNCAAAAACCAAACT
Sequence 422
TATTGGGCGAATTGGAGCTCNCCNNGGTGGCGGCCGCCCGGGCAGGTACNATATACGAAG
ACTCTGAGCTGTTTGCCTCCGATGGTTTCCAGTATTTGCCCGTTGTAAAGCTCATTAAGG
CCAACTTTTACTTTCAATATGTGATTCTGCAGAATTAATTTAAGGAGGCGCTGATCCATG
CTGAGAGTATCATCAGAAAATGCATTATTCACAGGTGCCAGCAAAGGTGTNTTCTCCATT
TGGCCTTAAANCCAAATNCCCAAANCTTNNTTGGGCCCAAAAANNCCCGGAAAGNGGGGT
TTGTTTTTTTTCCCGCCCCNTTNAANNATTTTTTTTGGGAAAAANNCGGGAATTTGGCCC
NTNTTTTTTTAAAAGGGGGGCCCCCCCTTTTTTTTTNAAAAAAAANANTTTTTNTNTNCC
CCNNNTTTNNGNNCCNTTNTTTGNNNNGGGGGGGNNCNCCCCNCNAAAAAAAANNAAAAN
NTNNTTTTTNCCCCCCNNNNANGAGGGGGGGNNCCCCCCTNTTTNANAAAAAAAAAAAAN
NNNNNNNNTTTTTTTTTTTTTTTTTTNC
Sequence 423
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGATTTCAGTAA
GTCTCATAGGTTAAAAAAAAAGTCACCAAATAGTGTGAAATATATTACTTAACTGTCCGT
AAGCAGTATATTAGTATTATCTTGTTCAGGAAAAGGTTGAATAATATATGCCTTGTATAA
TATTGAAAATTGAAAAGTACCTCGGCCGCCCGGGCAGGTACCATCTTGGCGGATGACTTC
AGCATTAGATGGTCAGGTGTATTTTTTTATTAATAGGCGCATTCAGTTTGGAAAAGGCAG
CTTTTCATTAATGTCCCACGTAAAGGAATATGGCCTATACAGTACCTCGGCCGCTCTAGA
ACTAG
Sequence 424
CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGTAACATCCAAGAGCC
CATTCTACAGTGGGTGGTTTTGGTCTTTTTATAACTTTTTCTCAAAGTCACTGATGTTTG
TTCCTGTTAAATGTATATGCA
Sequence 425
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGGATCTAAAAACAAAC
AACAACTCAAAAAAAAAAAAAAAAAGAAAGAAAAAAGAAAAAGAAAACCAATGCAGGTGA
AGGTGTTACCAGGAAGTTAAGCATGCCAAAAGGTGTTCCGTGCGAATGAAAACCTAAAGC
CAAGGTACTCTCCACTCTTCCAGTCAGAGTGGCACATCTTGAGGTCACGGCAGGTGCGGG
CGGGGTTCTTGCGGCTGCCCTCTGGGCTCCGAATGTTCTCG
Sequence 426

Table 1

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTAAAAATGTAATCTA
GTTGGCAAAGGTGTGCGCTAAAACACGGAACCGAACATGCATTGATTTGGATAACTTTTG
AGGGTTTTTGNCAAATAGCATGTGAAGAGTTACNTTTTTCTTAAAAGATTGGTGGTCCCA
ATGTCAGAGTTCTTGGAACAGATAACTGAATGATAGATTTTTTTTTTAAAGATAAAACTT
TACAACCTGCACATTTGTTATGCATACTAAATGGNGTGTTAAAATTAGGGTTTCTTTGCC
TNTCTACACTACACTAATCTGCCTAAAGGNGGTTGTTTCATATTTATAATGCTAATTATC
ATACCTACCTACTTTAAATTTTAGGTAGAAAATTATCTGATTTAAATACAAACATNTTTT
TCTCACATTGAGTAATATGCATAATGTAAGTTCAAATGTATTTCAT
Sequence 427
TCACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGCA
TATATTAGGCCTTCAAATGATGATGGATGGATAGACAGATAAAAGGCCCAATGAATGATT
GTAAATGTGTCTTCTCCTATGTATCCATGATGATATTGCCTAGTTTTTAATACAAGCTTA
AGAATCAATAAAATGATAGATCTGAAATCTGTAGATGCCAGTCTGGCTCAGACCT
Sequence 428
CTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCATACAGGGCAGATGT
CAGAGATTATGATCACAGGGTGCTGCTCAGATTTCCCCAAAGAGTGAAAAACCAAGGGAC
ATCAGATTTCTTACCCAGCCGACCAANATATTCCTGGGAATGGCACAGTTGTCNTCAACN
TTCCCACAGNGTGGNTGNTGTTTCNCCCNTTTATCCCTNTTTGCCCCNCACCCCAAAAGA
ANANTNGGTTNTNTGGCCCCNAAAAANNAGNTTTTTTTTTTTTTAAAAAAANAAAACCCT
GGGAACTNTTNGGCTTCCCNCAANGGCAATTTTNTNNTTNTTNCCCTTCCCCGGGGGGNG
GNCCCNTTTTTNAAAAACANAGGGGNNNCCCCCCCCNGNGNCGGGGANNGAATTTTNNG
ATTTAAAAANTTTTTTTNNNNCCCCCCCCTNNAACCNCCNTNGGGGGGGGGGGGCCC
Sequence 429
TAACACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCG
TGTTCAACCGCAACGAGGATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCC
TGGCCTCGGCTTTCTTCTTGGTGGTCGACGCGTATTTCCCCCAGATCAGCAACGCCACTG
ACCGCAAGTACTTCCTTTGGCAGACGGCTATTATGTTTTACTTTAGTGCCGTATTGTGGA
TGCCAGAGAACTTGCATTTGCCAGGGAATAATCTCCTGAGATGCTATATTATGAAGTAGA
ATGGTGTAGTCTAATTCAATAAAGTCATCATTTCTTTGCACTTGCTTGGACAGTTTGAAT
TTTTACCATTTTATACCATGTGTCTTTCAGTAGGAATTTTGCCATATTATATAACCACAG
GCAACCCAAGCTAAAATGTAGAACGGAGCCGTCATTTCTGGGAGATACATTTCAAA
Sequence 430
ATCACTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTTCACAGCTG
ATCCAGAAGTCAATATTCTCCTCACTATATTCAGACTTCAAGAAAGCTTTGAAAGCTGCC
AGCCCACATTCATGACTAATCAGGTTTTCCAGTGATTCAGCCCATTTCTTGACTTCCTCT
TGGCTCACTCTCTGGCAAATAACCACTTTGTCCTTNTGGTTGGGGGAAAGAATTGGGGTC
ACAGGAATCAAAATTTTGCAGCAGGGAAACCTAGCCCGTGGTTTTCATATTNTTTGGACT
CCTAAAGAAAANAAACCCGGAAAAACCCTTGGNAGGCCNTTTNGCAAATTNTTNTNTAAA
ACNGGGTTGGANATTCCCCAGGGGGGANNAAAAAANATTNGCGGGAAGNGGGNGGNNCTT
TTTTTTTTNTNTTAAAANAANACCCGGGGGGGGGGGNANAAAANNNAAANAANTNCCNN
CCCCCCGGGGGGGGGGGNNNTTTTNAATTTTTTTCCCCCCCCCCCCCCNGGGGGGGGGG
GGGGGGCCCCCCCTTTTTTTTTTTTTTTTTTT
Sequence 431
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGACCTCCTTACTTACCCCCCTTCT
CCTTCGGCTGGAGCTCGGCGAGCGAGAGGCGGCGCTGGCGTTGGAGAGCGTGCTTGAGAA
TGAAATGTTTCCCATCATAGTGGATTCTTAAGCACGTTCTCCACGTATGCGGCGTGCTAG
CTGGATGTCTTTNGGCATAATTGTTACACGTTTGGCATGGATAGCACACAGGNTGGGTGT
NTTAAAAANGGCNAACCAAATGGGCCNTTTTNGNCTCCNAAAAAAACCCAANAGTTTTTC
CTTTGNNANNNCCCAAATTTTTTTTNAAAGGCCCGNGAAAATTTTTTNCCNCAAACCCCT
TGGANGGGANATTTNGGGAAAANAAAAAATTTAAGGGGGCTTTTTTTTNAAACCCTTTAN
NTTNTNGGGGGGGCCCCAAAATTTCNTTGNCGGGGGGGGGCNTTTTAAAAAAAAAANNGG
GGCCCCCCCGGNGGGGGGGGGGNANTTNNANNAAAAATTTTTCCCCCCCCCCCCCCCCGG
GGGGGGGGGC
Sequence 432
GGGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCGATGTTGATCTTCANGTTTATCTCCC
CGCGACTTGTCCACGTAGAGCTCAGGATGCACCTCCGTGGTGAGGTAATACTGCACCTGC

Table 1

CCGGGCGGCCGAGGTACATGCCTAGACCTGGGCTCCGGCCAGCGCCCAACAGCGTGGATG
TCGATGACTTCATCAATACGAGAATACAGGAGGCAGACAATGACCCCACG
Sequence 433
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTATTGCCATTTCTCTGCTATATAGT
AATATTTCTTGACACCAATGGTAATGTGTTTGTTTCTTTCTCAGCACCAGATGTGTCCAT
ATGTATTTAAACAGTAGGAGCATTGTTTCTAAATTCATCTATGCTATGACATATATAAAC
CCATTATTATTATGTTTCACTAAAGTTCCAGCACTTTAGAAAAGTTTCAGTTCAAAGTCA
TTTTGGCTCATTCATTTAGATAATACTGACCATTTTGCACTACAATTTCAAAAGGAACAT
GAGAAATTTGGATTTCTTTGAAAGAGTCAAATATGTAATTACAGAATTGAAACACTGNGT
TAATTCCCAAAGGGGGTGGTAATAATTAACATTAA
Sequence 434
CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAGTTTCCCTATTTTG
GTGTTCAGCTTGAAAAAGGACTTGTCAGAATCAACTGTGTCATCAAAATTTAAGTAATGT
GCATTGAAAATAAGGTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTTAAATACA
AATAAAATTGTAATTTAGAATTTTTAATCTTAGGTTTCTTGATTAATTTATAAGAGATCA
ATTATTGTCAGTCTTTTTTGTATGTTTTTTAAAAACATAGTCCAGAGCATGGGCAGAATT
GACACCTCTCTTTTAAGTGAAATTTGGATTGCTCACAAAGCACTAGGAAATGTCATGGGG
TTCAAATATATATCCTACACAACTGGGCAATACATTTTTGTTTGATTTTTAGGTCTGGGT
ATACATTAACAGTTCATGGAATTAATACCCGGATCATTTGGGATAATGNAAGTGNAGTTA
GTTGTAGATGAAGTAAAAGNTATAAAAGGAGATTAAAAATGCGGTAACCTTTTA
Sequence 435
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATTGATA
GTGGAATTATATATTTTTACTCTATGTTTCTCTACATGTTTTTTTCTTTCCGTTGCTGAA
AAATATTTGAAACTTGTGGTCTCTGAAGCTCGGTGGCACCTGGAATTTACTGTATTCATT
GTCGGGCACTGTCCACTGTGGCCTTTCTTAGCATTTTTACCTGCAGAAAAACTTTGTATG
GTACCTCGGCCGAGGTACACAACTGGAAAGACTGCTGTAATAACACAGCCTTGTTATTTT
TAAGTCCTATTTTGATATTAATTTCTGATTAGTTAGTAAATAACACCTGGATTCTATGGA
GGACCTCGGTCTTCATCCAAGTGGCCTGAGTATTTCACTGGCAGGTTGTGAATTTTTCTT
TTCCTCTTTGGGGATCCAAATGATGATGTGCAATTTCATGTTTTAACTTGGGAAACTGAA
AGGGTTCCCATATAGCTTCAAAAACAAAAACAAAATGTGTTATCCGACGGGATACT
Sequence 436
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAGTTTCCCTATTTTGGTGTTCAGCTTGAA
AAAGGACTTGTCAGAATCAACTGTGTCATCAAAATTTAAGTAATGTGCATTGAAAATAAG
GTTGATCATGGGAATATGCAGAATTTCCAATGTATTTTTAAATACAAATAAAATTGTAAT
TTAGAATTTTTAATCTTAGGTTTCTTGATTAATTTATAAGAGATCAATTATTGNCAGTCT
TTTTTGTATGTTTTTTAAAAACATAGTCCAGAGCATGGGCAGAATTGACACCTNTCTTTT
AAGTGAAATTTGGATTGCTCACAAAGCACTAGGAAATGTCATTGGGGTTCAAATATATAT
CCTACACAACTGGGCAATAATTTTTTTGTTTGATTTTTAGGGCCTGNGTATACATTTAAC
AGTTTCATGTAATTAATACCTTGATCAT
Sequence 437
CCGCGGTGGCGGCCGAGGTACTTAAGCACTGCAGATGCTCCAGTAATATGCCCATAAGTT
CCTTTCCAATTTCAATTACTGGGAAAATATACATATGGACAATAGATGGATGCCACAATA
AAAGGCTGGCAGCCTAACCCTCACATGAATTTTTCCCTACCTCTATTTAGGGTGACAGTG
GAGGGCCTCTGGTTTGCTTTGAGAAGGACAAATACATTTTACAAGGAGTCACTTCTTGGG
GTCTTGGCTGTGCACGCCCCAATAAGCCTGGTGTCTATGTTCGTGTTTCAAGGTTTGTTA
CTTGGATTGAGGGAGTTGATGAGAAATAATTAATTGGACGGGAGACAGAGTGACGCACTG
ACTCACCTAGAGGGCTGGAACCGTGGGTAGGGGATTTAGCATGCTGGAAATAACTNGCAG
TAATCAAACGAAGACACTTGTCCCCAGCTCCAGCTACGCCCAACTCGG
Sequence 438
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGAAACATTTTCT
TTTATTGTTACTTGCTTTTTAAACTTTGTTTAGCCACTTAAAATCTGCTTATGGCACAAT
TTGCCTCAAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTTAA
AAAAAAAAAAGAAACAAGAAAAAAAAAAAGAAAAAAAAAANNAAAANANAAAAANAAANC
ANAAAAAAAAAAAAAAAAAANTANANAAAAAAAAAAGGAAAAAATTCTGCCTANCNAAAT
AAAAAAANAAGAAGAAGAAATGGTTTTNGCNNNGGNCCCNNGGNGGNCTTTCTTTTNAAA
NANATNTTTTTNAAANGGNTGNNTAAAAANANANNAACAATGTNNNNNAAAAAATCTTTT

Table 1

TTNTAAACCNNGGGGCNGTTNNTTTTTNNAAGCAACCNGNAAAGGAAAGNGGTTTTTTTN
AAAAAAATTATNGGGGTTTTTTTTTTTNAAAAACCCNCGGGGGCCCNGGGTTTTTTTTT
AAAAAAGGGGGGGGGGGCA
Sequence 439
CCGCGGTGGCGGCCGAGGTACCACGACTCTTATTTCCTGCAGCTTTTGAGAATTCTAAAG
ATACCTGAGTCATTTTAAATAAATTTCAGCTTTCTTTACCAAACTACCCTTAACCGGATT
CTCCTTGAAATGACATCACCTGACACCCATGGCATGCTGCATGCCCACAGCTAGATTACT
TTTTAGTGCGCCCACGCACTTCTGCTTTTATTAGGTGAGGCAGAATCAAGATTCCCTTTT
GTTGGATCTTGAACCTGTTCATGCCACTTTGATATTCTAAATTCATACATAAACCAATGA
AATATATGTGTTAGAAAAATTGCTATTTCTAGCTGGACGCAGTGGCTCATGACTATAATC
CTACCACTTTGGCAGGCCGAGGCAGGAGGATTGGTTGAGGCCCAAGAGTTTGAGACCAGC
CTGGGCAACATAAGTGAGACCCTGGTTTCTACAA
Sequence 440
CCGCGGTGGCGGCCGAGGTACTTGGCATATATTANGGCCTTCAAATGATGATGGATGGAT
AGACAGATAAAAGGCCCAATGAATGATTGTAAATGTGTCTTCTCCTATGTATCCATGATG
ATATTGCCTAGTTTTTAATACAAGCTTAAGAATCAATAAAATGATAGATCTGAAATCTGT
AGATGCCAGTCTGGCTCAGTATTAATACTGACAGTAGTTTTTTTGTTTTTTAAGAAAGCA
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TAGAACTAAAAAGCAATTTAAGGCAAAGAGGTACCTGCCCGGGCGGCCGAGGTCCCCCTT
TTTTTNTNTTTNATTTTNCCTNTTTNTCTTTTTCTTNTTTACTGCCCNCNNNAGTTTGGG
GTTGGANCCCTTTTTTTANTTTTTTNCAACACCCCCCGNCTTTATAANTAACCCTTTTAA
NTTTTTTTTTTTAAAAAA
Sequence 441
AGGTACCAGGTTTTATTTTTCACCTTATTCTCTACTTTAAACAAATCATAACTTTCTCTT
TAAGCCTCTGCTATAAATTCTCCTGGCTCTCCTGGGCTTNCATATTTTGGGGGCTTGGGG
TGTCAAAAGTGAGATGAAGTTCTTTAGCTCCAGGTTTTGGGGTAAACCANAGGTAGGTAA
CATTGTTGGGCATTTATTTTGCAANTTAANCAANTACTTTCCTTGNNACTNGGNTGCCGG
GTGGCTCACGTNTTGTAATNCCCAGCACCTNTTGGGGGAGGCNTTGAAGACCAGGTNGGG
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ATTNAGGCCAAAANACCCCCTTGTNCNTTTTNACTTAAANAANANTNACCAAAAAAAATT
TAANTATTGGGGGNTGGNTTTTTTGGGGCAC
Sequence 442
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AAAACTAGGCAATATCATCATGGATACATAGGAGAAGACACATTTACAATCATTCATTGG
GCCTTTTATCTGTCTATCCATCCATCATCATTTGAAGGCCTAATATATGCCAAGGTACCT
GCCCGGGCGGCCGCTCTAGAACTAGGTG
Sequence 443
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGNACTGACAGGAGA
TTGGCTTTTACACTAAAAAAGACAGAAAATGGACTAAATAGGAACATAATTTCAGAGTTT
ATGAGTCAGTTTACAATATGCCATATTAGCGATCTCATGATGATTCAGACCACAGTCTGG
GTTAAAGATGTCTTGACCTCTGAGGCTAGCATAACATATATGAGAATACAACTTGCCTAT
TTCCAGAAAATCTGTATATTTTTTATAGAATAACTTTATTTACAATTTCTATCATCCAATT
ACTCACTAGGCATTATTTGT
Sequence 444
ACACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCAGA
AGTTTGCTGTCTCTAGGATTCATATAGCACCCACAGAGCTCCAAGTAACCAAATTCCCCC
AAAGACAGGAGGTGTGGCTGAGGAGGAGTGACCATATTGAGTGTAGCTTTGAACGCCTCC
GTTACTCTTTAGGAGGCGACCGCCCCAGTCAAACTACCCACCACGCACTGTCTCCTTCCC
AGATAAGGGGAACGGGTTAGAAAATCAATTTAGCAAGGGTGGTATTTCAAGGTTGACTCC
ACTAGAACTAAGCGTCCCAGCTTCAAAGTCTTCCACCTATCCTACACATGCTAAACCAAT

Sequence 445
NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTTTTAAAAACAC

Table 1

TGTAAAAGTAACCACAAATATGTGAGGACTTACTATTTTAAATGGAATGGAATGAGCTCC
ATAGATTAGTTTTGAATATAAAGTATATAAAAGTGCATCAGTGGTTTATATAGGCTTTAA
AAACATGTTATCTTACAGTCCTTTAAAGCAGCCATAGAGTTTGTATCATTTTTCAAGCCA
ATTTCAGTCAGGGATTTGAATTGTTTGATTATGGATGATAAATGTGTCATATCTTATTAA
TATGTCTCATGTCTCGTTCCTTCTTAATATGATTTAGCTGGAATTCATTTTCTTTTCGTT
TCATGTTTAATTTCATAAAACGTTTAACAATTGGCATATATACTTGGCATTCCTGTCCAC
CAAGGGATTGTAATCCAAGCCTGGGAAAATCTTAAATTTCTTTTTACTTAAATCTGGNAA
TTTTGTCNTCATTCTGCCACCTTTTTTTTTTTTT
Sequence 446
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCTCCT
AAAAGAAGATTACTGCTGCCAACTTAAGTCATCTCCGTTAACGAAATTGCATTCTTGTGG
CAGAGTTAAAACAACAAGAGAAATTCAGTGTTTGCTGGTTCTGAATGTCATTTTTCCTCC
CTGGTGTGGTTTTACATTTTCAGCTTCTTTCCCTTTTCTTCTCTCCCACCCTCAAAATTC
TGCCTTAGCATTTGTGTGCTTAATTAAATCCACTCTGTGCTTTATTGTTGGAGAATGTGG
ACAATACAAAGATTTGGGGTGGGGTCATACAGTGTATACAAAACACACACACTATGTGTT
TGGACAAATTCGCCAAGCGTGAGAATCATCAAGTAGTGAGTTTAAAAGTTTGAAAATCAA
GACCCAACATTTTGGGGTGTTTAAAATATCTCCCGCCTTGAAATGGNTCCTGTTTAAGTG
TTAGATNGGAGANCCCTTGATTCAAAAACAAAAACCGA
Sequence 447
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAGAGAGAAATTCAAACAAAATATTGCTGT
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TTTGTAGTTTTATATTGGATACTGAGGCATTAGGGAGGCATGAAAGGAAGAGGAATGAGG
ATTGAGACATGTGAAGACATTGTGCATTATATCAATGTGCATTCCTGTAGTTCATTAACA
AGGTACCT
Sequence 448
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGAC
CAAAATTTTTTATTTGACTAAATTCTATTCATGCATGAGCATGACAGTCTCCCGTTTATT
TGACTTTGGCAATAAAAAAACAAGCAGCCTTGTACTTCATTGTGAGGTGGCTACAACTCT
ATAATATGCACAGTGATTTTAAAATAGGCTTTTTGCATGCCTTGCATGAAAGGTGCTACA
TACAAACCTGTTTTGTGAACTCTTTGGTAACCACCAATTTAAAAATTTGGATGAAAGCAT
TTCCACATGGACAGATCTGAAGCACATTATTGGAGCTCTGAGCCAAAGCTATTACCCTGT
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TTAAAGCATGTCAGGCCCCGGTTAGGAAAATGAAAATG
Sequence 449
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TGTTGGTGGCTGAGAGTCAAAGCAGGCCAATCCACACCATTACCTGAAATATTTTTCAGG
CTAATTTATAACTTTATGGATTTCCTCGATACAAGTTTATTAGTTTATTCTCCATATACA
AGTTTATTCTCCCAGAATAGCAGCAAATAAAACTTGAATTGGATGTACCTCGGCCGAGGT
ACTACGTGCCAGCTCTAGTTTTCAGCCTTGGGAGGTTTTATTC
Sequence 450
CACTACTTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGCATATAAAA
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TCATTCTACATCCATTTTTTAAAGTTAGCTAACAAGATGATGTTTCACTAAAATAAAATA
TCCAATCATCAGATTAAAGTGTAAAGTTTGTGTGAACAGGGAAATTAGATCATTTCTCTA
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TTTAAAAAAAATAAATATTTTAAA
Sequence 451
CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTACGTGCCA
GCTCTAGTTTTCAGCCTTGGGAGGTTTTATTCTGACTTCCTCTGATTTTGGCATGTGGAG
ACACTCCTATAAGGAGAGTTCAAGCCTGTGGGAGTAGAAAAATCTCATTCCCAGAGTCAG
AGGAGAAGAGACATGTACCCCACCTCTGAAGATGCTGGGGGAGGCAGCTGGGATGGGAGC
CAGCCCCATGCCTGTCTGTGACCCCACAGTGGGTGAGAGCCCGTCACAGTCCTGGGGTGT

Table 1

GGCTGCTCTGGAAGAATTAGGAGGCAGCCATAATAAGAGTCTTCAGAGAGATGATGGGAG
GGGCCAGTGAGGACAGGAACAGGAGAGTNNGATGTCCTATAATAAAGGGGGC
Sequence 452
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGAGATGCTGCC
TTGAGACAGCTGAGGTCACCGCGGCGCGCACAGGCCCCGAACGCTCAGGAGTGTGGTTGT
TAGGAGAGCACACAGGTGTTCATACAGTGGCATTTGGGACACAATCGTTGGAACCTGAAG
AATCTGAAGTTTTTTTTTACCACCATCTTTTTCTACTCTGTAAGGAAGTAGATCTTTATGG
GGAAAAGAGAATTTGGGGTGTTCTGCAAGCCAGTCAAAGTGGCACAGCAAATCATATAAA
TCGAATTAAATGGACAACACCGTTAGATGTGTATGTAAAAATTTTCTGTTTCATATTTTT
CCTTTCACTTTCGGTTTAAAACATGCTATATGTACCTCGGCCGCTCTAGAACTAG
Sequence 453
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGCATATATTA
GGCCTTCAAATGATGATGGATGGATAGACAGATAAAAGGCCCAATGAATGATTGTAAATG
TGTCTTCTCCTATGTATCCATGATGATATTGCCTAGTTTTTAATACAAGCTTAAGAATCA
ATAAAATGATAGATCTGAAATCTGTAGATGCCAGTCTGGCTCAGTATTAATACTGACAGT
AGTTTTTTTGTTTTTTAAGAAAGCAAGTATATTAAAATATCTCTGTTAGAAAAGATTACA
ATTTGAAAGGATCATTCTACAATCTTAGAACTAAAAAGCAATTTAAGGCAAAGAGGTACC
TGCCCGGGCGGCCGCTCTAGAACTAG
Sequence 454
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCTGACTTTGTGACTTAGGCGGCTG
TGTTGCCTATGTAGAGAACACGCTTCACCCCCACTCCCCGTACCTGCCCGGGCGGCCGCC
CGGGCAGGTACAAGCTATTATATATTTTCATAATATAGAACTTTAAAGTATAGTAATCAA
CAGTGGCAAAATATTTCTGTCTCTGACATTATTATTTGTGAGATCCAACCTGTAATTGAG
ATCAGAGAAAACAGTATGGGAAAACAAATCCATGAGAACAGGATAAAAATATCATGAACA
GCAAAATATGTCTGAGTATTTAAAACTGTATAGAAAAAATAAATTAGATGAACAATTGTG
TAAATATAAATTAAAAAAGATGACATTCTTAATAAATAAAGTTTACTATTTACATTTTTA
TATATTGCCAAAAGATTTAACTTAGATNCATAAAAACCACATAAACAGAA
Sequence 455
ACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCTTTTT
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GGCCTTTGGAAGAAAACAATGTAAATGATGATTAAAACAGAATCTTGGTTCAAAGGTATT
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GAATTCTGGTGGGGTGGGGT
Sequence 456
CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGATGAAGGAACTGACAGGAAA
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GGGTGGAGTGTGTTACAGAAATTGGCAGCAAGTATCCAATGGGTGAAAAAGAAGCTAACT
GGGGG
Sequence 457
GAGGTNCTGCATGTTACATATTCTTCTTTAAAATTTTGTAATAAACATTGACAGTGTTTG
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CATTGCAGTATTCCTTTTATCAGAATTAGGTGAGTATTGATTGTAAAAGCTCTATCAACT
CTTGCTCTTATTTGATGACTTTGAGACTTTTTTACTCTTGCTATAAAAAGAAGGCTACTT
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GCACTTTTTCATGGAAAAAAAAAAAAAC
Sequence 458
CTCNCCGCGGTGGCGGGCCGAGGTNCATTTCCATGGGCCCTGTTCCCATTGATGTATACT

Table 1

GCTTCCTTACTAACAGTGAGGGATGACTTTCATCAGTCTTTTATCACCTGAACAGTCTTC
CGGCCATAATGATAGTAACTATAAGCTGATGCAGCTGTGNNGAAAGCTGTAAAACACCTT
TTATGGAAGAAAAGANATAAAATGTANTTGTCAAGTCTAAAAAATAGTAGCAACGGGAAT
CATAATGAATACATGCAATGAATTTAAAATGNAAAAATGAATTTAAAAAGTAAAAAGGGC
TCTGTGGTGTAATTTTTCTTAACTACAA
Sequence 459
CGCGGTGGCGGCCGAGGTACAAGCTCCTAAAAGAAGATTACTGCTGCCAACTTAAGTCAT
CTCCATTAACGAAATTGCATTCTTGTGGCAGAGTTAAAACAACAAGAGAAATTCAGTGTT
TGCTGGTTCTGAATGTCATTTTTCCTCCCTGGTGTGGTTTTACATTTTCAGCTTCTTTCC
CTTTTCTTCTCTCCCACCCTCAAAATTCTGCCTTAGCATTTGTGTGCTTAATTAAATCCA
CTCTGTGCTTTATTGTTGGAGAATGTGGACAATACAAAGATTTGGGGTGGGGTCATACAG
TGTATACAAAACACACACACTNTGTGTTTGGACAAATTCGCCTAGCGTGAGAATCATCAG
TAGTGAGTTTAAAAGTTTGAAAATCAGACCCAACATTTTGGGGTGNTTAAAATATCTCCC
GCCTTGAA
Sequence 460
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTGACGAAGAATG
AAAAGGTTGTATTAAAGAACTATCAGGACATGGTTGTGGAGGGTTGTGGGTGTCGCTAGT
ACAGCAAAAAAAAAAAACGTCAAGCCAAACACAAACAGCGGAAACGCCTTAAGTCCAGCT
GTAAGAGACACCCTTTGTACAAGCTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAGTTTTT
AGTTTATTACCTGCCCG
Sequence 461
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATGTTATGTCGGGAACA
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CCGTCTTCTCAAAGACGAAGGTCTTTGCAAAGTTCAGTGCTCGGTGTTCTCGGCACAACA
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AAATGGTTTTATGGAAAAATTAATCTGTAACAAAAAGTTGGCATTTGAGTGCGAAGGCTC
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Sequence 462
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTTTTTTTTTT
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TGTATTTNTTTTGNGGACTAAATGGTGAATTTATATTCAAATTGGTCAAATTTATTTTCA
AAACTTTCAGAGCACANATCATTGGTAATTTT
Sequence 463
CCGGGCAGGTACACGTGTTCAGTGTGTTGCACATCACAGCCCAGGTTGAACTCAGCCAGC
AGGATCTTGGCAGCTTCTTCCTGCTTTGCAGGAAGGACAGAGGTTGAGGTAGGAACTTCA
TAAGCAATTTGGAGAGAGGCTCCTCCCATATCCAGTATCCCTACTGTCCTTCTCCGTCCT
GCTGCCAATTCCTGGGTAGCCTCAGCATCTGATTCATCCTCGTGGTCGAATCTTCCCAAA
ACAAAGTTGATTCCAATCCATGCATAAACCCCTTCCTGCTTCCCAGAGATCACTTCTGCT
TGAGACTGTGAAAAGAGGAAGTCAAA
Sequence 464
AGGTACATTTCTTGTTTAGGAGGGTTTTCCTATCTACCTTTCTACTGAAGTAGTTTCTGG
AACTTTCCTGGTGGATCAGAGTTACGTAATGCAGTCTGAGCCTTCAGACTGCTAGTTAGA
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AGACTCCACAAACCCTCTGATGAGACGATTGATGTGGCCAGGGTCCAGTTAGCATCAGTA
GAAGGATGTCACTAGGAAAGGCCCAGGTATCTGGTAAGT
Sequence 465
CCGCGGTGGCGGCCGAGGTACCTCAAACTCAGAGTTTCTTCCCTTCTTTGATTTTCTGGA

Table 1

GGACCTGCAGCTGGCCTTCCTGAGACAGGCTCCATTCCTGTTCCATTTGCCTTCCCGGCA
GCCTTCCCTTTAGTGGGTATAGGTTTTGACGTTCTGAGTTACTTTGTATCAAAGAGCTAA
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GGCCGCCCGGGCAGGTACCAAAAACCAACATGACACACAGGAAAAAATAAAAGTGCAATT
TTAATATAGTGAATGTGATACATGTATAATTCCTCATAACAAAATGGGCAAAACCTT
Sequence 466
CCGGGCAGGTACCTCAGCTATCAACATTTCTGAGCTACCATTCAATGTTCCTCTGTGTCA
TGGAGTGAAATTCTTGTTTTGTGGGTATTAGGAGTGTGGGAATGTGATAACCTAAACAAC
CTTTGCTCTGAAATTCCATTTTTCCCTCTTTCCCTGAGTTGTATTGACCTACAGAGTTAA
TTTCCTTTGTATTTTTTTAAGAAAATATTAAAAATCAACGGTCTCAAAAACCTCGGCCGC
CCGGGCAGGTACTCCAAGATGAGCTTGACGCGGCTGTGCAGCATCTTGATGGCGCTGTGC
TGTGCTATCAGGTGT
Sequence 467
CCGGGCAGGTACTTGGCATATATTAGGCCTTCAAATGATGATGGATGGATAGACAGATAA
AAGGCCCAATGAATGATTGTAAATGTGTCTTCTCCTATGTATCCATGATGATATTGCCTA
GTTTTTAATACAAGCTTAAGAATCAATAAAATGATAGATCTGAAATCTGTAGATGCCAGT
CTGGCTCAGTATTAATACTGACAGTAGTTTTTTTGTTTTTTAAGAAAGCAAGTATATTAA
AATATCTCTGTTAGAAAAGATTACAATTTGAAAGGATCATTCTACAATCTTAGAACTAAA
AAGCAATTTAAGGCAAAGAGG
Sequence 468
CCGGGCAGGTACTAGGTTAGAACATTGCTTAATCCTTTTAAAAAANATGCATTNACTGTA
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AAAACATTAGTCGTGAAATCCCTAGCAACAAGTCACTGGATTTTTCTCTGTCAGCACGCG
TGTCAGCTGCCAAA
Sequence 469
AGGTACAAATGTGGTGTGTCTTCCAACTTTCATTGAAAATGCCATATCTATACCATATTT
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TGGCAAGATATTTGTGGTCTTGATCATACTTATTAAAATAATGCCAAACACCAAATATGA
ATTTTATGATGTACCAAGAAAGTCGGGATCGTCGGTAAATACGGGACCCGCTATGGGGCC
TCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACCTGCCCG
Sequence 470
AGGTTTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGA
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AGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAGAAGTGCTCAGAGAGGTGGA
AGACCATGTCTGCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAAGCGGACAAGGCCC
GTTATGAAAGAGAAATGAAAACCTATATCC
Sequence 471
ACCGCNGTGGCGGCCGANGTACAGGCTGTGATNCGTGTGGCGATCGATCTTCTTAGATTC
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TGGCATTCGGGCATTGGCTGTNCGAATCAAANCACTTACATGAGGGGGCAAAGTCAGAGA
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CCANAGATATGCCTGGCNGGGGCCAGGACAAAATGCAAACTTTNTTTTTTTCTGAGACAG
AGTCTTGCTCTGTCGCCA
Sequence 472
AGGTACAAGCTTACCTTTTAGGGTAGAAAAAGAAAGATCATTTGAAAAATGTATCTAAAA
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GAGAAAATACTAAACGCCAAGAGTTGAGCCTGTGGGTCTCTCCATAAGAGTTTTAAAACT
CTTGCCAGTTACCACTTTATCCAATTTGCTATCATTTTCGTATTATCAGCTATCGCCCTG
TAAAATATTCAAAACTAGCTATTTNTAAAGTAAACATTTTATCTGTTACTTTTAACCAGA
TAGGTGTCTTTGTCATCCTTCTACTATAAATTGTTCTTTGCCAACCTGTACCTGCCCG
Sequence 473
CCGGNCAGGGCTGGTTTGGGGCACAAGGAAGCCTTAGGGTATGGGGAAAGGCTGTTATTA

Table 1

CCTAGAGTTTACTCCCAGGCCAGGGGGCTGCCATCTTCTTCACAGACATCCCTGAAAGGA
AGCCCCTTTGGGGCAGGGAGGTGAGGACTTCATCTCAACATCGGCTGGTGGTTGGTAGGG
GAGCTTTTTCTTTTCTTTCCTTTTTTTTTGTTTTTGTTTTTGTTTTTGTTTTTGGTAACAT
GTTAGGAGTCAATGTTGCAAAGAGTAGTTTACATCTTCACTTTCTGAAGACACTTGAATT
TAGGACCGATGTATCTGTGACAAGCATGCCAGAAGTGGCAGGGGCCATCAGGGCTAACCA
CTTCACACCTACCATCGTCCCATGGGGATCCAAGACCTGAGATAAAGCAACAGCCTGCCC
AGATCCCTCTGTTCATCCTATCCCTTCCAAGGTTGGTCCATGCCAACATAACCTCTGGGC
ATCAGACATCAGCAGGTCTGTGTGCCTCAGCCCTGTTAAGGGGCAGGTTTCTCTTTAGCC
CTCTTCCTGCACTTGGGAGCAAANGCACTACCAGTNGAAAAAGGGCCATTCAGCCGTGCC
CCCAACCTGGGACCCCTGGGGCTCAAATAGAGGTGCTGAGCCCCTGTGTNAAAAGTTGGT
AAATGGTT
Sequence 474
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTATTTTCAA
ATATACAAGGATCATTTACCAAGATAAACCATAATTTTGGGCCATAAAACATTTAGGATT
GAAAATACAGAGCAAATTCTCTAACCACAATAAATTTAAAAAATCGATAGCCAAAAGATA
ACTGAAAACTCCCCCAAATGTTTGAAAATTAACACATTTCTAGAAAAGTCATAGATCAAA
ATTAAATTACAAGGGAAATCTGACACTATTTTGAACTACGCGTTCATGAAAACACATCAA
AACTTGTGAAATGCAGCTAAAACAGTGCTTGGAGAGAGAAAAGTTCTAAAATTACTAATA
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AAGATAACTGCAGAAATCAATGCGATAGAAAATAAGCAAATAGAGAAAATTAGTAAAACC
AAAAGTTGCTCCTTTAAATGATCAATAAA
Sequence 475
CCGCGGTGGCGGCCGCCCGGNCAGGGCTGGTTTGGGGCACAAGGAAGCCTTAGGGTATGG
GGAAAGGCTGTTATTACCTAGAGTTTACTCCCAGGCCAGGGGGCTGCCATCTTCTTCACA
GACATCCCTGAAAGGAAGCCCCTTTGGGGCAGGGAGGTGAGGACTTCATCTCAACATCGG
CTGGTGGTTGGTAGGGGAGCTTTTTCTTTTCTTTCCTTTTTTTTTGTTTTTGTTTTTGTTT
TTGTTTTTGGTAACATGTTAGGAGTCAATGTTGCAAAGAGTAGTTTACATCTTCACTTTC
TGAAGACACTTGAATTTAGGACCGATGTATCTGTGACAAGCATGCCATAAGTGGNAGGGG
CCATCAGGGCTAACCACTTCACACCTACCATCGTCCCATGGGGATCCAAGACCTGAGATA
AAGCAACAGCCTGCCCAGATCCCTCTGTTCATCCTATCCCTTCAAGGTTGGGTCCATG
Sequence 476
AGGTACTGTTCTATACTATTCAGGTATCTTTTTATTTCTGATAGTTTTATATTATAATAG
AAAGCCAGCCACTGCTTAGCTATCATAGTCACCATTTTCTCACTGTTAACATTAGGAAAA
TCAAGGCTACTATGCTTCAGGATTGTCTGGTTAAATAGTATGGGAAAAAAACTGAAGAGT
TTCACATAATTACACACGTGAAATAATTAAAGCTTAAACTGAATTTGTATTTCATTTTAT
TGTCAGATGGTGGTGTTCACCAGCCTGTATCTTGTCTGAGACTGCATTCGTATCTGAGCA
GGTTTTCTATGCCTACTGATGTCAGTATGTTTATACTAACCTTCATGCTTTTTTCCCAGA
ATCCCTCATCTGCCAGAAAACTTGAAAAGTTTATTGCTTGTAGAGTTGTACCTGCCCG
Sequence 477
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGCAACAACTTAAGTGTTT
TATCCTTACGGTCAGCTTTGGTTAAAACAGTAACATAACAAAATTAATAGAATCATGCAT
CGCAGGTGATAAATGATTCAAAATGACAGGAAATCAATTTAATTAAGAAATAGCAACACT
TAAAAAATGCATAGGGTTGAGCACCCGTATTATTGAGGGTGGATAATTTAAATGTATAGA
AGAAATCAGTTCAGAGTTTAATGATTGAATAACATTCTCTTTAGCAACTATGAGTGTGAA
ATTTTGGTTAATGATACCGAAAATATTAGGTTATAGGAAGTTACAGTATTACATAAGGTG
AGCAAAATAATCTAATCCAATTAATATAACGCCATCTGGGGGCT
Sequence 478
CCGGGCAGGTACATTCCAGGCAAAAACAGGGATCTCAAGGNGGTCAAGAAGAACATTCTG
GATAGCAAGCCCACTGCAAACAAGAAGTGCGACCTGATCAGCATCCCCAAGAAAACCACA
GACACGGCCAGTGTGCAAAATGAAGCCAAGTTGGATGAGATTTTAAAAGAGATCAAATCT
ATAAAAGACACAATCTGCAATCAAGATGAGCGTATTTCCAAGTTAGAACAGCAGATGGCA
AAGATAGCAGCCTGAAGGTCCCACCCCCACCCCTACAGAAAAAATGGGAGCAAGAACTTG
TGCTTGGGAGCTGGTTATTGGTGTGGTCCTAGGGAGGGCGGAAAGGGAGGCACTGCCATT
TGGAGACATTCCATTTCAGATTTGTCAACCAGCGATAGGCCACATTCCAGTAAGAACTCA
ATTTGTCTCCCAAATTTGCAGAAACAAAACGTGATTTAAAAGCTGAGCTTTTTATCAGAA
AGCTTTTTTGATGTTTTAAGTGTTATGTGACTTGTTGAACTTTTTAAAAAGTGCTNCTTT

Table 1

TAAAATCCCAGATACTCTGAATTTTAGAAAACAAACTAATTCTGATTGNGTCGTGCCCAA
GTACCTNGGCCGTCTAGAACTAGTGGATCCCC
Sequence 479
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGAAACCCACCTCACCC
CGGCTCACATCTAAAGGGGCGGGGCCGTGGTCTGGTTCTGACTTTGTGTTTTTGTGCCCT
CCTGGGGACCAGAATCTCCTTTCGGAATGAATGTTCATGGAAGAGGCTNCTCTGAGGGCA
AGAAACCTGTTTTAGTGCTGCATTCGACATGGAAAAGTCCTTTTAACCTGTGCTTGCATC
CTCCTTTNCTTCTNCTCTACAATCCATCTCTTTTAAGTTGACAGTGACTATGTCAAGTCT
AATCTCTTGTTTGCCAGGGTTCCTAAATTAATTCACTTAACCATGATGCAAA
Sequence 480
AGGTACAGGTTGAACATTCCGTTCCAACAATCCAAAACCCCAAATGCTCCAAAATCTTAA
ACTTTGAGTTCCAGCATTCCGTCAGAAGTGGAAAATTTTACACCTGACCTCATTTGACAG
GTGGCAGTTACAGTGCAATCAAAACTTTGTTCCATGCCCAAGATTATTAAAAATATTGGA
TAAAATTACCTTCAAGCTATGTTGTATAAGGTGTATATAAAACAAATGAATTTTGTGTTT
AGACTTGGGTCTACTCCCAAGATACCTCATTATATATATATACAAAAATCCCCAAATCCAAA
AACATTTGAAACACTTCTGGTCCCACACATTTTGGATAAGGGATATTTGACCTATATCTA
ATTATATAATAAGAAAAATGTATTTTCTTTTTTTTTTTTTTTGAGATGGAGTTTCACTCT
TGTTGTCGCCCAGGCTGCAATGGCACAATCTTGGCTTACTACAACCTCCGCCTCCCTAGT
TCAAGGGATTCTCCTGCCTCAGCCTCCCAGGTAGCTGGGATTACAGGCATGTGCCACCAT
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Sequence 481
CCGGGCAGGTGGCAGCTCTGGCCCTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCT
TCTTCGTCCTGGATGAGATTGATGCTGCCTTGGATAACACCAACATTGGCAAGGTGGCAA
ATTACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCTCTCAAGGAGG
AGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGA
TCAGCAAAGTCCTGACCTTCGACCTCACCAAATTTCCTGTTAATCGAAATTTAACCCGAA
AGGCTGGATACCTTAATGCTAGGAATAAAACAGGCTTGGTGTCATCTACCTGGGACAGAC
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AAAAAGATCATGAAGAGTGGATCTGTACCT
Sequence 482
CCGGGCAGGTACAGAAGAGAGATGACGCCTCCGGCTGGGGAGGGAGGGGCTGGCGCCTCT
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TGGACTTTGAGGGGCAAAGACAACCCACTTTTCCTGCCCCCTACCCCCGGCTCTTAGAGA
CCATTTAAATCCATATCCAAAGTATATCCAGAGCCACCTGGGACCATCAGGCCTCTGGCT
AGTCTTTCTGGGCCAAACCTGTCCTCCACCCTGAGGACCCTCAGGGAACCAGGAAGGTGA
GGGGCTGGCTCCGCCCCACCTGTAGCACAAGAGCTGGCCCAGGAGGAGGCTGAAGATGTG
TTTCTAGTTCCTGCATGCTGCTTTGTTGTGTGACCTCGGACATGTCACCTCCAGCCTTCT
TCACCCACCTCACCTATCAACTAGGGCTAGTAATTGCCTGTGGTGGGTGGGCTGGGGGGC
TCTGATGCCAAAATGCAGGTAGAAGACACACTGTGAGAGGCAAACGTCTTCACTCATCCT
GCAGGGAAAGGCCAAGTGAGCATCTGGGACCCATTCGAGCTGAATGACCCCCAC
Sequence 483
CCGGGCAGGTACGCAAGCCTCTTCTCTCCCTTGATGTGGTAGCTACAGGCAGTTACATTC
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CAAAGTAAACATTACAAGAATATGAACTTGTTATTGGGGGAAAGGGGAAGTGAAGCAATC
TGTAGAAAATATTTAACTGAAATTACAAACATAAGGACAAGCCTTTAAAGCAAATTATAC
AGGCATTTTTGTCCTCTCTCTGGTCCCTGCAGTTAATTAACAGGGCCACAGATAATCTGA
CATCTTTAGATAAAACAACTACACACCTATATTACTTAAGTTAAAGCCAGTAAGTTCAAA
AAAAGCAATTACAACCATTTGACATGTTTGTATTTTTCATCTCTAACTCCTGATTTCCTA
AATTACATTCAGTCATACAAACATGGCTGAACAACAGCAAATGGGATCTGACTCTGGGAT
GTTTACTTCTTGGGATTAAAATTCCCAAACACTTTGGTGTCTCTTTCTTGTGAATCTATA
CAACATTTCCAATAAATGTTTAATAATGATTTTTTAAAAGATATTGCCAAAAATGGCTCA
GATTTAAGATGAAATAAAAAC
Sequence 484
CCGGGCAGGTGGCCTGTTCACTTTCTCTTACTCACTGTCTATTCACTTGTCCTGTTCACT

Table 1

CGTCTGGAAGATCTCAGCCAGCACCATGACTGACAATGAGCTGTCTGCCTTGGTAGTGGA
TAATGGGTCAGGGATGTGCAAGGCAGGCTTTGGTGGTGACGATGCCCCCCGGGCTGTGTT
CCCCTCCATGATAGGGCGTCCTCGACACCAGGGCGTTATGGTAGGCATGGGCCAGAAGGA
CTGCTACGTGGGAGATGAGGCTCAGAGCAAGAGAGGCGTCCTGACCCTGAAGTATCCTAT
CGAGCATGGAGTGGTCACCAACTGGGACGATATGGAAAAGATCTGGTACCT
Sequence 485
NCGAGGTGGACAANAAACACGNATGGCTAGGANAAACTATCAATGCTGGCAGCCAGNTTG
AATANAATGTGGAAGGAGTGACTTNCAAGGAAANGGCTACCCAACTNGCCTNCATGCGCC
TGCTGGCCAACTATGCCTCTCANAACATCACCTACCACTTGCAAGAACAGCATTGCATAC
ATGGATGAGGAGACTGGCAACCTGAAAAAGGCTGTCATTCTACAGGGCTCTAATGATGTT
GAACTTGTTTGCTGAGGGGCAACAGCAGGTTNCACCTTACACTGTTTCTTTGTAAGATGG
CCTGCTCTAAAAAAGACAAAATGAATNGGGGAAAAGACAACTCATTTGAATACAAANACA
AAAATAAGCCCATCACCGCNCTGCCCTTNCTTGANATTGGCACCCTTTTGGACATCGGGG
GGTGCCTGACNAAGGAAATTCTTTTGCNGGACATNNGGCCCANTNCCTNGTTNCAAAANA
AAANTGAACCTCAAATCTAAATTAAAAAAAAGGAAAAGAAAAATTTTGNAAAAAAACTTT
TCCTCTTTTNGCCNAGNGNCCTTNGTTTCNTCCCTTTT
Sequence 486
AGGTNNTGACACACAANTACANACATAGTCCCACTTAGGGTGNTGATATTNCTTTAAAAA
AAAAAACAANGGGCTCACAAACAATAAGACATCACAAATAAAACATCNAGAACCACANTT
GCCAANAAATGCCAAGACCAATATGCTACTGAAACAACTGGTAGAAATGTCACANACAAN
NTATTCANNATGTATTGNAATAATTACTTGNAGTTAANGANNGCGAAAGGTAAAACCAAA
CNGGGANAAGAANTAACTCCTTGTAAACTGGGCTCTTGGGNTNNAAAGAGGATCTTTTNA
CAANNTTANTTTTNTAAACCATTACCCTTTGTTTATAAAAAAAAANGTANCCAAANCTAC
AATGGTNNACCCCGGANGGGGA
Sequence 487
TACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGAGACAGGCAAGCTCGGATTCA
ACTACCTTAGATAATATTTCTGAAAACCTACCAGCCNGAGGGTAGGGCACAAAGATGGAT
GTAATGCACTTTGGGAGGCCAAGGCGGGAGGATTGCTTGAGCCCAGGAGTTCAAAGACCA
GCCTGGGCAACATACCAAGACCCCCGTCTCTTTAAAAATATATATATTTTAAATATACTT
AAATATATATTTCTAATATCTTTAAATATATATATATATTTTAAAGACCAATTTATGGGA
GAATTGCACACAGATGTGAAATGAATGTAATCTAATAGAAGCCTAATCAGCCCACCATGT
TCTNCACTGGAAAAATCCTCTTTCTTTGGGGGTTTTTCTTTCTTTCTTTTTTGATTTTGC
ACTGGGACGGTGGACGTCAGCCCATGTACCTGCCCCGGGCCGGNCGCTCTAGACCTAGGG
nnnnnnnnnnnnnnnnnnnnnnnnGATATCAAGCTTATCGATACCCGTCGACCTCGANG
GGGGGGGC
Sequence 488
GANTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAANGCAAGAAAGCTGGGG
GGCTCCATGTTCACTGCCAACCCATGGATCTGTATATCAGGAGAATTGGGTGAGACACAG
ATCATGCAGATTCCCAGGAATGTGCTAGAGATGACCTTNGAGTGCCAGAACTTGGGGAAG
CTTACTACTGTCCAGATTGGCCATGATAACTCTGGGCTGTATGCCAAATGGCTGGTGGAG
TATGTGATGGTCAGGAATGAGATCACAGGACATACCTACAAGTTCCCGTGTGGCCGGTGG
TTAGGGAAGGGCATGGATGATGGAAGCCTGGA
Sequence 489
CCGGGCAGGTACAAGGTAGTGGAATTATNTCTTATATTGCTTTTTCCAAAAAGTAAAAAC
CAAAAATGTGGGCNCGGGTGTGGTGGCTCATGCCTGTAATCCCAAGCACTTTGGGAGGCT
GANGCAGGCGAATCACANNGCCAGGAAGTTCAAAGACCAGCCTGCCCAACACAGTGAAAC
CCCGCNCTNTACTAAAAATACAAAATTAGCCAGATGTGGTGGCGCACACCTGTAATCCCA
GCTACTCAGGGAAGCCTGAGGCAGGAAAATCGCTTGAACCCTGGGNAGGTGGGAAGTTGG
CAAGTGGAAGCCCGAGAATCGCACCACTTGCACTTCCAAGCCTNGGGTTGGACAAAGAAG
CCGAAAACTTCCANCTTNAAAAAAAAAAAAAAAAAACCCAAAAGTGGAAAACACTTAAAA
AAATTCCCCTAATAGATAATATTTCCCAAGGAAAATTATTTTTAAATT
Sequence 490
CCGGGCAGGTACCAACATTTATTAATCCTCACAACACCCCTGTGAGGTAGGTCAGTATGG
NCTTTAGAGTCGNGAACTGAGGCAGAGGTCAAGCAAACCTGCCCTGGGCCACAGAGCAGC
ACGATGAAGGGCCTANACCTGGATCCAGAAGCTAGGGGCTCTTCGGNCCAGCATTCATCC
ACTGGTGGACATNACATGGGGCTTATTTTTACCAAGCCGAAGGTTACCGTGAAGGGACAA

Table 1

AACCGCACTCANCCAGCAACCGGGAAACTCAAACAGTTCAAACAGCACCTGGGGGGAACA
TGTTCAGTGTAAAAGGAGACGAAAACCGCTGACCAGCTCATGAATGGAGGGCAAGGACAA
CCATGGCGGCTTGAGGGAAAAGTGTGGGGAATCAATCACCGACCTGGGGGGATTTAGGAA
CCCAAAGAAACCGGGGGCGGCTTCAGGGGAGGGGGTTTCAAGGGAAAAATGGTTAAAACA
AAACCTNAGGGAACCCCCATCCCAAGGGGGGGGGACCAGGGCCCCAAAATGGCCTTACCG
GNTCTTNCAAAATGGGTAGAAAAAAATTTTGAAAAAAGGAATAGGNGGGNAAAA
Sequence 491
TCAGATCCAAAGCCAGCACGGCACCGGGTTTCTTGCCTAAGGTCCATGGTGACCACTCCT
TGGCTATTGCCAATGTTCACTCAAGGCCCAAGCACTCTTTATTCAGCTGGTGGCAAATCC
AGCCAGGCTTGTGTTTTTCCCTTCAGTATGACGAGCTCCCCCTAAGCCCAAGACAAGTCC
TAAAATGTCATNTGGGAGCCAGGACCTGGAATCAGGATCCTTAGGAATTTACTTGGTGCT
GTATTCTACTATGGCTGAGCTGGCAATCAAAGTGGCAAAGATTAAAGCCCTTTATTTTCT
TTGNTCTCCTTTCCTC
Sequence 492
AACGCGGNGNGGGACTTGNGGGCCAAGCAGGAGGGAAAGCCTGTCTGGAAGTTACNTGTG
GACATGGNGNCCAGGACGCTGGTATCCTGCATAGATTTCAGGTACCTCGGCCGCTCTAGA
ACTAAGTGGATCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNGATACCCGTCGA
CCTCGAGGGGGGGGCCCGGNACCnnnnnnnnnnnnnnnnnnnnnnnnnAGGGGTTAATTGCC
GCGCTTGGCGTAATTCATGGGNCAATAAGCTTGTTNTCCTGTNGTGAAAAATTGTTATCG
CGCTTCACAATTTCCACACAAACAATACGAAGCNCGGGNAAGCATAAAAGGTGGTANAAA
GCCTGGGG
Sequence 493
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTGTGGGGTGCAG
TGAATGAAACTAAAGAGTTGTTGCACCTGAAAAAGACACCAGTGATTGGGTATTGGGTAG
TCGATTGGAGACTTTGATTTTTTTTTTTTTTTTCACATGGGAAAGTCTTAGATNCCAAGTAG
ATGGAATTNGCAATCCTTTGCAGTTTGTTCTCATTACAGATAATCAACATTTNTTTTGTA
TAATTCAATACATGATCAAGTTAATTGGTAAATTTTTATTGAAATTTAAAACTTGCATTT
TTATATATGTGTATGTGTACCT
Sequence 494
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACTTGAATGATATTTNGA
CCACATCCATGCAGGGTGCTNACACTGNGACATNNGGAACTGATATCAGGTCAGCTCTCT
GCCTGNCTCANTATGCATCACTATATCTCATCAATATGAATCATATTGATANCNGAAGGN
GNTGAAACAAATGAAGCNGGCNTTTATATATTAACTGTGTGTNNAGTGCGTATAGAACAT
GGGNTCACATTCACTAATATTATGTGTATTCATACACATGCACAAAACCTT
Sequence 495
GGTACTTTACCCTTCAACGGGACANGAAACTGCNCCAGAAGTCAACTTCACATTTGAAGG
AGAAACGGGAAAGGNTCCANGATTGAAGAAGACAACACATTTTATCAAAGACTTAAGTCC
ATGAAAGGAACNCGNTAGAAGCACANAATATTCCAGACAATTTTGGAAATGTATCTCCAG
AAATGACGCTCGNNCTACATTTAGCCTGGGNCTGCCTGNGGCTTATATAANATTGGCAAG
AAATTCCTACTTGAAGACACAATGGTATAAAAATGGGNNAAAAAATTNAANACTGTCAAG
CCAAGGTGGCAAAAGCAAATGANNGACCTTTTATTGGAATTTAAGANTACACCATTCTAC
TTTCATTAAAT
Sequence 496
AGGTACTGTTCTACCAACAGCTCTGATTTGGTGAGTGCATTTTCTACGCCACTGCTCACG
AGCTGCATNATCCGACTCCCCAAGACTGTGTTAATGCTGCCACTGACCACAGACTTGGTC
TTCTCCACACTGCCAGTCACTGCCCCTTTGGTCTTGTCCATCACCCCTGTGATCGTGCTG
GCCACAGAATCCTTGGCCCCAGTCACAGTANGTCCGTCACAGCATCTTTTTGCCCCAGTC
ACAGCGCCTTTGGCATTTGGGCAACAAATCTTGAGTTTGATGGGGCTGATTCAAGAAATA
AGGCAAGTTCCTCTCCTCAATCCCTGGTCTAAGCCCCCTTACAGGGCATAAGGGTATTGG
GGCCAACTGGCAAATTTTGCGGGCTTCCTAGCTTTCTGGGAATGAATGGGGCCAAGAAGC
ACTGGGTCATGGGCCCACCGGGAGGGTGAATGGTCTTTCAACAACCGTTTCCTCNTGCCC
ATCTTCACAACAACAGGAACTTTCAAGGGTAGGGGAATACCTGGGGTCCCTTTGGTAACC
TTGCCCCCGGGGCGGGCCCGCTTCTTAGAAACTAAGGNGGGAATCCC
Sequence 497
GAGCTCCACCGCNGTGGCGGCCGAGGTACTTTTCTACCTTAAAAAAATCAGTGAGGATAT
TTATTTAATGAACATCAATTCCTTTTAAATTTTCTTAGAGAAATNGNCTCTGTGGCTCAG

Table 1

TTTTACCACCCATAAAGCGGAGACAGTAATTTATGGTTATTCCTTTCTGACCCACAAAGT
ATGAAAAGTTCTTGTAANCTGTAAACTCAGTTCTGNAATCTGCATTATTGAGATGATTAA
TATAAAGTTGTATTTTCACTGAAATGANTGTTTTGCTGGTTATGCTTGGTGAATATTTTA
GCCGGGCTTATTTTTTTGAAAG
Sequence 498
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTAATCATTTT
GACTGTGTCAGTAATATAATCAGAATACTGTAACGGTAAGAGAAAAATACTTTTTTTTTT
TTTGAGACTGGGTCTCGCTCTGTCGCCCAAGCTGGAATGCAGTGGCGCAATCACACCTCA
CTGCAGCCTCAACCTCCTGGGCTCAAGGATCCTCTAGCCTCAGCCTCCTGAGTAGCTGGA
ACTACATGCATGCACCACCACACTCAAGCTNATTTTTTTTAAATTTATTTTTAGTAGAGA
CAGGGTCTCACTATGTTGCCTAGGCTAGTCTTGAACTCCTGGGCTCAAGTGATCCTCCTG
CCTNAGCCTNCCAAAGTGCTGCGATTACAAGCGTGAGCCACCGCCTGGCCCGAAAAATAC
CTTGGGTTTTAATCAATTCCCATTCANCAATAGTGAAAAATGCTNTATGGTCCTTCCGGC
CCNTTTAAGAAACTAGGTGGGATTCCCCCC
Sequence 499
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACCTGGGGGGGTTTGCT
TTCCTGCCTTTTCTCTGGTTGGTCAACATCTTCTGGTTCTTCCGAGAGGCCTTCCTTGTC
CCAGCCTACACAGAACAGAGCCAAATCAAAGGCTAGCTGGAGATGGCCAAAGCCCGGAAC
CAACTGGATGCTGTCTTGCAGTGTCTGCTGGAGAAGAGTCACATGGACAGGGAGCGTCTG
GATGAGGAAGCTGGGAAAACACCCTCAGACACCCACAATAAGGACTGCTCCATCGCAGCC
ACTGGCAAAAGGCCATCTGCCCGCTTCCCCCACCAGCGGAGGAAGAAGAGGAGGGAGATG
GATGATGGGCTGGCTGAGGGAGGGCCGCAGCGATCCAACACATATGTGATCAAGCTGTTC
GACCGGAGCGTGGACTTGGCCCAGTTCAGCGAGAACACGCCACTGTACCTGCCCG
Sequence 500
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANGAGCTCAGACCCGGGGAGAC
CCTCAACGTCAACTTCCTCCTGCGAATGGACCGCGCCCACGNGGCCNNGATCCGCTACTA
CACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCNGGACGCCAGGTGCGAGAGCC
CGGCCAGGACCTGGTGGTGCTGNCCCTGTCCATCACCACCGACTTNATCCCTTCCTTCCG
CCTGGTGGCGTACCTGCCCGGGCGGCCGAGGTACTTNCTACCACTGCTGCATGAGTATAA
TGCTCCGGAATTATCAGAAAGCATAATGCAGAAATACGAATTANTGGAACTTAATCATGT
GCCANATAAGCTTACCTAACAAACAGTTATATCCCTATTCCTCAACTGAATGTCTTGTAA
TAAATAAGAATTNATCATTTATTTTCTGCAACTTTTTTTATGTCTCATTCTTTAAACATT
AANAACCCTTAATATTTTAACAAAAATTTCTTGATTAGAGGCACAGTGAAAAAAGAAGTC
NAAA
Sequence 501
AGGTACNGTGTGGCTTGGTCACTTCGTGGCTAAGGTAAGAACGTGCTTGTGGAAGACAAG
TCTGTGGNTTGGTGAGTCTGTGTGGCCAGCAGCCTCTGATCTGTGCAGGGTATTAACGTG
TCAGGGCTGAAGTGTTCTTGGGATTTCTTCTAAGAGGGCTGGCAAAGAACCANGTTGTTT
TTGTCTTGCGGGTCTGTCAAGGGTTGGAAAGTCCAAGCCGTAGGACCCAAGTTTCCTTTC
TTAAGCTGATGTCTTTTGGCCAAGAACACCCGTGGGGCCTGTTACTTTGTTTTTTGAGTT
GGGAAGCCCGGGTTTGCAATTTTANCGCCCCTGTAAAAAATGGTATTTCAATTTCTTAAA
TTTTTAATGGTNAAANGGNTTTTTTTTTTTGGTAACCCTTNGCCCCGGGGGCGGGCCCGC
TTCTTANAAACCTTAAGTGGGGAATCCCCCCCCGGGGCTTGCAAGGGAAAAATTTCGATA
ATCAAAAGCCTTTTAATTCGAAATAACCCCCTNCNAACCNTTCCAAAGGGGGGGG
Sequence 502
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAACATACACACACAC
ACACACACACACACACACACAGAGGCCAATTTCCAGTGAGGAACAGGCTCCACAGAAGAA
GCTGATAGGCAGGGGGGATCAAACGCTGCTCCCCTGCTCACCGATCTACTTCTCCAAATA
CAATATCTTGGGTACTTACAACTATAAAAAGATACAATAACTCTACCAATTATAAATAAT
GTAGCATTTCATATTAAAGACATTATCGTACCTGCCCG
Sequence 503
CTGTTCCTACGGCAGTCAAGAGGCCCAGGCTCTGTGGGCTCCAGCTCTGCATTTCCTGGT
TCTGGGGNTGGGGCTGGGATGACTTCCTGTTGGACTTGCTGCTGGGACTGGAACTGGAAC
TGTTCCTCGGAGGGCCGAGGAGTCACCTCTGCAGCCAGGGGAGGATAAGGGGGTCTGCTC
CCTCTACCCCTCCCAGGGGGTCTCCCCACCCCAGCTGCCGGCCCGTCCTATCCTACCCCT
AGCCCGTTACCTTGATAATCATAGTAGTCTGGGTTGTCGATCTGGTCGCTATAGTGGGTG

Table 1

TACCTGCCCG
Sequence 504
AGGTNCATTCAGAATCCCACGAGCAATTCAGATAGACCAGTCACCAGGCCTCTAGCTAAA
AGAGCACTGAAATACACAGATGAAAAAGAGACGGAGGGTTCTAAGCCAACAAAAACTCCT
ACCACTACACCACCTGAAACTCAGCAGTCACCTCATCTTAGCCTGAAGGATATCACCAAT
GTCTCCTTGTATCCTGTTGTGAAAATCAGAAGACTTTCTCTTTCNTCCAAAAAAGAATAA
AGCCAAGCCCAGCAGNGGGCTCTGCCTAAACCGTAGGGGGGCACAANGCCAGCCGTNGAA
CTATTAAGGGAGGCCCACNCCTTGCTTTTGNAAAACTGAAGAAAAGAGGGGGGACCCCTT
TTACAGAATTTTGNTGTTTTTTTGGAAATTCTCCCTATTTTTCAAGCANAAAAAAGGGAT
TTNAGGACCGTTTCTAAAAAAAAAGGNATTGAAACCAAAATACC
Sequence 505
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTNTTTGTCACTTAAA
GGTNCTTTCTGTAANCTGCTTCAGATNCTTTNACTATTCAATTTTTAATNCTTAATNTCT
GTAAAGAACGTTAATATTCCTCTTTATAATCAATCTTTCCCAGTTNGCCTNAAAAATGTA
TTCCCTACTTTTGCTTCAGGAGATCAT
Sequence 506
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGAAGGCACTGAATA
AATTCACAAAGGCCGATTGGTTCACCCATTCTTTTAGNGACAACAGACACGCAATTCTGA
CGAGGACTCCTGTTACTAAAAGACACAGCCTCTGATACAAGAGAGATATCCCTTTGACTA
AAGCATTACCAGGGTCCCCAGGGCCCCCTCCCACTGGGGCGGNAACACTACGGGTCTCCC
CACCATATATTCCATGTCAAAGTATCTACACAAATACAGAGGAAATTAAGCAAGTAAATA
CGGTATGTAATTGTTATCATTTGTATTTCTTTAAGGCATATTTATAAATATTTTAAAGTA
AACAATATGAGTGAGTGCCTTTCATTAGCTATGATCTTTCATACTGATATAT
Sequence 507
GGNGAATNGGAGCTNCACCGGGGNGGCGGCCGCCCGGGCAGGTACATAACATTTCAAATA
TAAGTGGAAGGATCATCAGTAGTGTTATCAAAATGCATAGGNACAGANNCTTTTTAAGAA
AGGATAAAAAATTACACTCAGGACCCATAACTCTTCCTCATTATAAGCATATGTAGTGAT
TCATTCATGCAGGTTTTTATATGTAGATAAGGATTTTTTTTTNCTTTTCAAGAATTCCAT
TGTANGCCATGAAGATGAAAAATTGTATTATGGGNAATNGGTATAGCTTTTCTTCTATTT
TGCTTTCAGTGTTAAGGGATTTGCCTAAAAGGCCTTATTTTAAAAATTCCCCAACCTGAA
CAATAAATNGNNGTTTTTCCAAATAAANGGGAGGGAACGCTTNNCCTAACCTCCCGGGGA
AGACGGGGGGGCCCNGGNTTTCCCCTTGGANGCCAAACCCTTTNGGNTCCGNTTTCTAAG
AAACATAAGTGGGGANTNCCCCCCGGGGGCTTNGCAAAGGGAAATTNTCGNNNTATTCC
AAAGGCTTTTAATCCGGAANANCCCGNGGCGGANCCCCCNTNANGGGGGGGG
Sequence 508
ATNGGAGCTCCCCGCGGTGGCGGCCGCCGCCTCCAGCCGTGTGCCGCTATGGGAGTCCCG
GCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGGCCATCATAGTCAACTGCGTGGAAGAG
AAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAAT
GATGTGGAGTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCAT
CCTGAAGACAAACCAGCACCAAAAAATGAAGATGAAATGATGGTTGCAATTTTTGAGTAC
ATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACTTCTCTACATGGCAATAGATGGA
GTGGCACCCACGTGCTAAAATGAACCAGCAGCGTTCAAGGGAGGTTCAGGGCATCAAAAG
AAGGAATGGAAGCCAGCAGTCGAGAAACAGCGAAGTCAGGGAAAGAAATATTGGCAAAAA
GGTGGCTTTTCTTTCCT
Sequence 509
TATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTCGCTTGGAACCTT
TTGGGGATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTCCAGTGTAAAGACTTCAAGT
GGTTCTTGGAGACTGTGTATCCAGAACTGCATGTGCCTGAGGACAGGCCTGGTTTCTTCG
GGATGCTCCAGAACAAAGGACTAACAGACTACTGCTTTGACTATAACCCTCCCGATGAAA
ACCAGATTGTGGGACACCAGGTCATTCTGTACCTCGGCCGCCCGGGCAGGTCTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCATGGNAAATTTNGCTTTTNTT
Sequence 510
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTAACCTACC
TTTAAGACTGGGATAACTATTGGAAACAATAGCTAATACCGGATATAGTTATTTATCGCA
TGATGAGTAATAGAAAGGAGCTTCACAGCTTCACTTAAAAATGGGGGTGCCGGAACATTA
GTTAGTTGGTAGGGTAATGGCCTACCAAGACGATGATGTTTAGCCGGGCCGAGAGGCTGT

Table 1

ACCT
Sequence 511
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNNGNNCNGNTAGCCATNAATCATAN
ATATAGGANACAGCANCTATACANCTGACATNACCANTTAATNTTATATNATGAAAGCAN
NNCATNTGCNTGTGCATCAAGGCCAGTCCTATTCAACCNANCTNTCGAATGCTGATANCT
GGATAGNATGTCATNNTGAAGNTGNCACATAACTTNTCTAAAAAAAAGCANTCTTTGTTG
NNTGCTTCTTCCCTACNGATGACTTCTAAAAATATATGACAGGGTATAAAAAAATTAGCT
ATACATGATCATATCAACACATGTAACTGCTGAAATGGCATTCTA
Sequence 512
CCGGGCAGGTACAGGTTCAAATGAAATTCAGGTTGTTGCAGGAGACCATGTACATNTTGC
AGTATGGGCCGGCGAGTTATGTTAATATGCAAGGTTAAGCAGAAAAAAGCGGANCCGTAG
GGAAACCGAGTNTGAATANGGGCGACTTTAGTATATTGGCATATACCCCCC
Sequence 513
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTAGCACCATCTGCTAGACTT
GAAAAATCTACTATGATATCAATTATTTTAGACTTCTTGTTTGCAGTTCATTATTATTTT
AAATATGGAATTATTTTATATGAAAAATAGTTGTCCCACAGGTTATTTTTATCTTTAATA
GTTATATATGAGAGGAAGGGTCAACAAAACAATATAGATAACACTGGAGTCTCGCTGTAG
TATACTCATTTGGTTCTGTTAAAAAGAGTTTTGTATTATAGAATGTACCTGCCCG
Sequence 514
AGGTACTCCTTTNTTAAAAACACTGNAAAAGTAACCACACATATGTGAGGACTTACTATN
TTAAATGGAATGGANTGAGCTCCATAGATTAGTTNTGAATATAAAGTATATAAAAGTGCA
TCAGNGGTTTATATAGGCTTTAAAAACATGTTATCTTACAGTCCTTTAAAGCAGCCATAG
AGTTTGTATCATTTTTCAAGCCAATTTCAGTCAGGGATTTGAATTGNTTGANTATTGGAT
GATAAANNGNGTCCATATCTTATNAANATGNGNTCNNGTCNCGTTCNTTNGTTANATATG
ATTNAGGGGGGAATTCATTTTTTTTTNCCCTCCATGTTAAATNTCANAAAACNNTAAACA
GTTGGCCNTTTNTANTNGGNNTTCCTTGCNCCCCAAGGNTTNGNNNCNCCCCNNGGGGGG
NAAAAATTTTAAAANTTTTTTTTNCNNAAAAANGAGGNGGAGGNNNCCCCCCCCCCCCCC
CCCTTTTTTTT
Sequence 515
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCTCANGCAAAAATTGCACGNGGTTG
ATGCCTTACATGAAGTACCAGTGAANAAAGGNGAAGGTGCCGAGCTATAAACCTCCAGAA
TATTATTA
Sequence 516
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACCAGTGGAGGAAG
GCCTTCCGGCGGAACATGGCAGTGAACTGCTCCGAGATGCGCTTGAAGAGCTCCTGGATG
GCTGTGCTATTGCCAATGAAGGTGACTGCCATCTTGAGGCCACGAGGNGGGATGTCACAG
ACTCGGTCCTTGTCGCCTGGAAGGCCCCGCGCCGGGAGCGGTCGACCTCGGCCGAGGTAC
CCACCACCACTGTATGATGCTCATGAGCTCTGGCNTGCCATGAAGGGAGTAGGCACTGAT
GAGAATTGCCTCATTGAAATACTAAGCTTCAAGAACAAATGGAGA
Sequence 517
GGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCACTGGGCTTTATA
AAGACTGCACTCAGAACCACACTGCACAGTCCAGTTTTTTAAAAAGCTGCTACATGACAG
ACAGGTAATCCCACTGAGTGAGTTTTGAGAAACAAATCAAACGAAGTAAACAAGAAACAT
AAAAACCAAATAGCAAATGAATAAAAGCCTGTTCTTGTAACTTAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAA
Sequence 518
CCGGGCAAGGTACCATCTGAATACCTCTTTGAAAGAAGGAAGACTTTACGTAGTGTAGAT
TTGTTTTGTGTTGTTTGAAAATATTATCTTTGTAATTATTTTTAATATGTAAGGAATGCT
TGGAATATCTGCTATATGTCAACTTTATGCAGCTTCCTTTTGAGGGACAAATTTAAAACA
AACAACCCCCCATCACAAACTTAAAGGATTGCAAGGGCCAGATCTGTTAAGTGGTTTCAT
AGGAGACACATCCAGCAATTGTGTGGTCAGTGGCTCTTTTACCCAATAAGATACATCACA
GTCACATGCTTGATGGTTTATGTTGACCTAAGATTTATTTTGTTAAAATCTCTCTCTGTT
GTGGTTCGGTCTTGGTCTGGTTTGG
Sequence 519
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGTGAAATTAACTGGCATCCTGG
TGGGCCCAAGGGTTTTCAGGACTGGGGGCCAATGACTCACCCCCTCCTTCCTCCTCCTGA

Table 1

TCCCTATCTCTAGCTCTTATCACAGATTTTGAACAATTGTCTGTGAGGTTAATGATGGTT
TCAGAGGGAAGCCCTTTTCCTCCCTGAGACTGTGTGGGGTTCAGTCAGCCTGCTGAAATT
GCTTCCACTTATTACCCATCCTTCCTCTTAAAAAAAAAAAAAGCCCACCAAGTTAGTATT
CTCTGTAGCTCTCAGACAGCTACAAGTGTTCCTGGCATATTTACCAAAGTACCTGCCCGG
GCGGCCGCTCTAGAACTAG
Sequence 520
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGTTTTAGTG
TGAATTTACATAGAATAAATTTACTTCACTTTCATGTCATCGACATGAATGACACAAAAG
CTACTTCATAATACTACTTTACAATAGTTTTCAACATTTCCATATGGTGCGACCCCTTTG
CTCTCATCAATTTTGGGTGTCATGAGAACAATAGGTATCCCGTTGGACATGATGTATTGC
GAAGAGCATATAAAGCAGAGGGAAAATGAAAAAGCAAGAGAAACTCATTTCAATGCTTTT
TCTAAAAGGTAACAAATATAATTTTAATCAACTTCCTTGGAAAATATTTTTAAAACAGGT
ATCAATAGAAAAAATTACAAAACATCATATGAAGCTATAAATAATTTTGAAAAACACCTC
GGCCGCTCTAGAACTAG
Sequence 521
AGGTTTAACCCCCCAGGGNTAAACCCCACCCAAAGGNNAAAGANGGGGGNACACAAAGCA
CCGAACAGCAGAGCAGNNNAANNCNNCGNNNACNAAACNCGGGGCNAGACACNAACNNGA
AAGAAACCACCCCCCCGGAGNNAAAAGGNANAGGANCANAACANGGGCACCGAGCCAAAG
AAAACGGGCAAGGACNAAGCCCCCCGGANCCACCCCCGNGGAACACCCNCNAGAGGNGGA
GAGAAAAGAAGGAAAGGCCNGAAGAGAAAGCAAANCCNCACANNCAANCCGGAAAGGCCC
CAAAGGCAAAGGGG
Sequence 522
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTNCTCGGTAACGGGCC
GACTTAATGGGNAGATCAACGCGAAATCCTTGGAAATATATANCAACAGCAAACACAAAA
ACTGNAGCAATGAGGTTCATGAGATTGGGTAAGTTCTGCCGATAAAAAGCCTCCCGTAAA
GCTCGGACTTTGNCCGTCCTGGTGGCCAACAAATGGAACAGAGCTATGACTGCACCCTCA
AACTCAGTACCTGCCCG
Sequence 523
GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACAGGGTTGAGTATTCCTAATCTGG
TAATCTGAAATTTCACATGCTCCGAAAATCACAAACTTTTTGAGTGCCAACATGATGCTC
AAAGAAAATGCTCATTGCAGCATTTAAGATTTCAGATTTTTGGGTTAGGAATGTTGAACT
GGTATAATGCAAATACTCCAAAATCTGAAGAAATCCAAAGTCTTAAATACTTCTGGTCCC
AAGCACTTCAGATAAAGGATACTCAATTTGTATTCCTATTTTGGAGATAAGAGATGGAGA
CTTACAGGCTGGGTTGGTTGGATTGGTTGCCTGTTTTTTGTTGATGTTGTAGTGGAAGCT
AGGAATGGTTTTTCACATTTTTTAAAGTGTACCTGCCCG
Sequence 524
AGGTACCGGCCATTGGTGCCTTGTGTCAGGTCCCAGAGGGCTGCCTCAATGCCAGCAGCA
ATGCCCTCCACCACCTCCTCACTCAGTACTGGGTCTGGGAGCTCCCGAAGGCTGTGGAGG
CCAGGGCACAGAGTAAAGCTCCTGGGCTAAGCCAGTGGCCAAGCCAGAAAACAATGCTGG
GCAGAAAAGGGTTACAAGGCAGGTAGTCTGGACACTGGATTCAACAGCTTGCCATCAGCC
AGGGAAAGTGAAGCTGAGGATGCATATGGAGCAGGGCCAGGAAGATCAGGAGAGCTGAGG
GAGAACAGGAAAATTGGGAGGAAGGAAGAGGCAGCTTANCAGCAAACTCCAGGAGAAATA
ACCAGCAGCCCTCACAGATTTGTGATTGTCTCTTAAAAAGATNTATTTTCTCTTCTTGCC
TGAATGTACCTGCCCG
Sequence 525
CGAATTGGAGCTCCACCGGCGGCCGAGGTACCACCGATAATGCTATTAGCCCAAACCGTG
GGTGTTTTNTAAATATTAATAGGGGGGCTTGATTCAACAAAGCCACAGACTTAACGTTGA
AATTTTCTTNAGGAATTTTCTAGTAACCCAGNTTCTAAAGTAGCTACAGCAAAGGGGGAA
ATATTATGTGTGANCATTTTTCTTCTTATGCTATATCCCCAAGTTTTTTTCAGGACTCAT
TTTAAGTNAAAGGCTAGAGTTGAGTAAAGGAAATAGAGCCCAAATGAGGGTAAGGTTGTC
TGAGCCATTGAAAGTNTTAAATACTGAAAAGAATGGTCCACTTTTTATTTCANNGAAAAT
TA
Sequence 526
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTCCACGACAAATTCT
TCAGGCTCTGCCTCTTCAACTTTTTTACTCTTTCCATTCTGTTTTTTTCCCATTTTTTGC
AATGTAGTTTTGTTGGAGGCCATTTTTTATTGCAGACTTGAAGAGCTATTATTCACCGCC

Table 1

TCCGAGCTGCTCCGACCTGCCCGGGCGGCCGAGGTACTTGTGCCTAGTTTTTCAAGGTAT
TGGCTGTTCTATAGATGCAGTGATTGTCCCAGCTAGCTCTGTTACCAGCCTTTTGGTGTG
TCTTTATGTTCATTTGGAGAGTCAGGGCC
Sequence 527
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAAAGACAAACTNGTAANGCA
TGACCTGGGGAAATGGTCAGACCTTGTATTGTGTTTTTGGCCTTGAAAGNAGCAAGTGAC
CAGAATCTGCCATGGCAACAGGCTTTAAAAAAGACCCTTAAAAAGACACTGTCTCAACTG
TGGATGTTAGCACCGGCCAGCTCTNTGTACTCCCTGGCACCATCTGGTTCATGCCAGGTT
TAGAGTTCATCGTGTTTGGCTTCCTGGTCTTTGAGTTTAAATTTCTCGGCTGTGACCTTC
CCATCTCCATTCCGGTCCTGGTTGGTGAACATATTCTTCACANNCAGGTCAGNATNNAAA
GCCAGGAGCGAGTTTNCCTTTGCCAGATGCCACCTGGCGTGAATGTACCTNGCCnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTCCNNTTATAAAANCTTATTN
GGATTCCCGTCNNACCCNNGAGGGGGGGGGCC
Sequence 528
AGCTCCCCGCGGTGGCGGCCGAGGTACAAACTCTGGCCAGTGCCCTGTTAATTGTTAATG
TTGGTAGAAAGCAGATTTGAATGCTTCTTTTAATTAGCTTCATTAGTCATTTCCCACAAA
CAAAACAGTATGTCTGTAGTTAACCTACTACTCTAGTAACCAACACATGGAAGCATCATA
TGCACATAAAAGTTAAACATTAAAACAAAACTTAAAACTCTCAAAACAGATAATCATGAA
TTTGTGTTTATAAAATTATATAGAATAAAGGCTTTGTGTGTGGGGACTTTCAGACCTGCC
CG
Sequence 529
TGGAGCTCCTCGCGGTGGCGGCCGCCCGGGCAGGGTACAATTCGCCCCGTGAGTCTAGGA
AGATTTGNTGAGCGTCTGCCAACTGGCAGATGAGGAACCGAAGTTCAGAGAGTTGAAAGC
ACTTGCCCCAGGTCA
Sequence 530
AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGCGACCGCCACGGAGCAGTGGG
TTCTGGTGGAGATGGTACAAGACCACACCGGATGTCATCTTTGTATTTGGATTCAGAACT
CATTTTGGTTGGTGGCAAGACAACTGGCTTTGGCATGATTTATGATTCCCTGGATTATGC
AAAGAAAAATGAACCCAAACATAAGACTTGCAAGACATGGCCTGTATGAGAAGAAAAAGA
CCTCAAGAAAGCAACGAAAGGAACNCAAGAACAGAATGAANNAAAGTNANGGGGGACTNG
CNAAAGNCCAATGTTGGNGNTNGCCAAAAAGTGAGCTTGGNNNATTGGATNCNCNAGCCC
GAAGGGANTTAAAAGGGGGCNNNNCANNTGNTNTTNGNNTTNGGGGCCCCCTTGGTGGNT
NTTTTTCNCCAGGGACCNTTTATTTANCTTTAANAACNTTCTAAAAAAAAA
Sequence 531
TGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGACAGTATGTCTAAGATGAGAGAGTTTA
GGGACTACTCTGTTTTAGCAAGAGATATTTTGGGGGTCTTTTTGTTTTAACTATTGTCAG
GAGATTGGGCTAAAGAGAAGACGACGAGAGTAAGGAAATAAAGGGAATTGCCTCTGGCTA
GAGAGTAGTTAGGTGTTAATACCTGGTAGAGATGTAAGGGATATGACCTCCCTTTCTTTA
TGTGCTCACTGAGGATCTGAGGGGACCCTGTTTA
Sequence 532
TTAATTGGAGCTCCCCGCGGTGGCGGCCGCCNNGGCAGGTACAATNNTTTATTANGGCAT
TTTTATTGCTCCGAATGAAAAGAGTGGAGCTTTAAGTAAATATGCCAAAAAAATATTCCT
AGCACAAAAGCCTGCACCACTGCTTGAGTCTCCTTTTAAAGATAGAGATCATTTCCAGCT
TGGCACCTTATCTCATACTCTCAACATTAAAGCTACTGGGTACCT
Sequence 533
GCCGAGGGCGGGGGGGGGGGTTTTGGGGGGGGGNAAAGCCCNTTTGGGGGGGGGTTTAAA
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NCTNNNAGGGNAAAGGANATAAGAGGGCCAAAAAAAGCAGCNCNAANNANACAGGGNAAN
AAAAAGNAAAGCNNGCGGCCCAGGCCCGGNNGGGGACCCAAGGNAAAACGGCCCAGGGNG
GGGNAGGGCCACAAACCAACGGGGGAATTCCCNGGACCGGAAAGAAGGGGAGNNANAANA
NCCCAANNGNNAAAAAANAAACACNCANCCGAAACACANNNANAAGCCAGGAANCNGCCA
TCTGCCNTAAAAGCCAGGNAACGGGNANCNCACACCCCNGGGANNNACACAACCCCNNNC
TCTNNGGCNGNAAGNGGAANCTGGAGGGGAGGGNCGCTCTTCTCCCGGACCCCGNAAACN
GGGCCGNNCAANAACAAAGGGGACCCCCCGGGCGGCAGGAAAGNAAAANCAAGCNAAACN
AAACCGGNGACCCNNGNGGGGGGCCCGGNACCCANGNNNGGCCCCCTAAGGGAGGGGAAA
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Table 1

CCNCANAAANCCCACACAAAAAAACCANGCCCGGGAACAAAAAGGGGAAAACCCCGGGG
GGG
Sequence 534
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCANGAGGCCTGAATTCATGTC
CACAATGACCTGTGCTTAACTATTCCAAAGGTCGCTAAAGATACTGTTACTACTATTGAG
ATATTATTGGCTACTTCACGTTTACATAGTAAATGTTTGCAGCATATAACATTCAATCAT
AAACCCATAATTAACTTATAAGTGTTAATGGACAACTGTGCTTTGATTTTTGCCTTTAGT
GATAAGAAAACAAAGTAGTGAAATGGGTCACTCCTCAAAGCATGGAACATTTTAACTTTG
CCTAGTAAGGAAAAACAAAACAAAATATAGCAATTACATGTGGAACCCGTAACCTGCAAA
AAGTAACACAAATATTGTCTNAAAAGGTACCTGCCCGGGCCGGNCGCTCTAAAACTA
Sequence 535
CGGGCAGGTACATGAAATGGTTTTGAAACAATAGGAACAGATAAGTCCCAGATAGGAGGC
TCACTGATACTTAATTGGCCATGTCACCAATGTTTGTTTTTAAGGGAGTTTGGTGGTTGC
CATGTTATCATTTTTTTTATCTTTCTTTCTTTTTCTTTCTTTCTTTCTTTCTTTCTTTCT
TTTCTTTCTTCCTCTTCTTCTTCTTTTTTGCAAATAATTTACAGGCATATGTAAAATACA
GTAAGAATACTGGGTCATAGTTTCATCCAGTGAAACTCTGTGACAATCCTTCACTAGAAG
GAGAGTACCT
Sequence 536
CCGCGGTGGCCGGCCGAGGTACCTTTCTCCCTCTCTACCAGTTTTTCCTCTAACTCTCTC
ACTTTCTCTTTATTTCTTTCACTTTCTTCTAATGCATTCTGCAAGATCCTGCTTTAGCAC
ATTTATTTCCTCTTCCGTGACCCTCAGCTCGTGGAAATGTGNATAATTAATCCATGCTTT
CAGGTGAGACAAAGACCGAGTTTCATCTGGCTTCTGCACACTAAGGACTTCTTTCATAAG
CCTCCTCGGTATTTGCTCTGAAGTTTCTTTAAAGTTTCTGGGCTGAGGGTCAAGAAGCTG
TTCTCTTGAAATCTCAAGTGGTTGTTTAAAGCATACCAAGTTCTTGCCCCTTCGGGGATTG
GAAGTTCCGACCTGTAGCTGGTTTTCTCTCTTGCTTCAAGAAGCTTCTCTAAATCTCNTT
CTGGNAGGATCTTNGCAAAAATCTCTTNGCAAGTTGGCTGGAAATTCTGACCANTCAATT
GGTCAGGTAGGTGGGAATTTTACCTAAAAGAATGGTAATTAAAAGACAAGGATGGGAAGA
TNGAATTTGGGAAGTCTTGGGGGGAAGAAGGGTTTCNACCAAGGTTTTCCCCAAGGGGAT
NGGGGCCCCCAANTTAAAGTTTGGGGNGGGAATNGGGTNTGAAGNTNAAAACTTTAGGTN
TTGCTTCCCCCCTCCTTGGGGGGNAANTTGGGGCCCCNGNAAANTAAATCTGGGNAAACC
CCCTAATTTGGGNAAAGGGGA
Sequence 537
AGGTACCCTCTCATGAGGAGGAATCCATGCTGGAGGATTCTCATAGGCAGGCAAGAAAAC
CACCGGGTAGTCATCATAAGGAATCCGGCTGTCCATCTCGGGCAAGGCCTTAGCTAAACA
TCTTCTGGATGCCAAGCAACCTGTCAGGTACGCGGGAAAGTTGAAGGCTACAAGAAGACC
AAGGAAGCTGTTTTGCTCCTTAAGAAACTTAAAGCCTGNAATGATATCAAAAAGGTCTAT
GCCTCTCAGCGAATGANAGCTGGGCAAAGGCAAAAATGGAGAAAACCGTCGCCCGTATCN
AGCGCAGGGGGCCCGTGCCATCATCTATAATGAGGGATAAATGGGTTATCAATCAAAGGC
CCTTCAGAAACATCCCTGGAATTACTCTGCTTAATGTAAGCAAGCTGAACATTTTGAAGC

Sequence 538
GGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCACGGTACGCGGGGGTGGCGGCGT
TGGGTTGAGCGGGCTTTTTGGAAGNTNGNGGCGGGAGTTCTGTGATATGAGCAACANTGG
ACCAGANGATTTTATCTCTAGCAGCNGAAAAAACAGCNGACAAACTGCAAGAATTTCTTG
GGCAGGGCCTGGGGAATGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATC
TAACACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCTATTC
GAGATATAGAAATAATACATGAAGAGCTTNAGCTTAAAGATGAGGAAATGATTGGGCCCA
TTATAGATAAACTAGAAAAGGTGGGCTGTGAGAGGAGGAGATAAA
Sequence 539
GGTACACTGATCAGGGACTGGAATCTTCTTTCCAATTTCCATGGCATATGCTTTCACTTT
GCTGAGGTTTTTTTTTAAGTGCAAGTAGAGCTTATCTTGGTATTCTATAGGACTTGCAGT
TGTCTCTGGAGTTTCTTCCTGGGAGTTTTCTTTAACAGTTTCTGACAAATTCTCTGAGTC
TATATGTATAATATTTGGGTATGAAACTGAAGACTCCCCCAGCTGTGATCTCTCAGNGTC
TGTCTTAAACGGCAGCTTGTCATTTCCTTGGCCAAGTGGGTCTATTTCTGAAAGAGAGAT
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GAGCATAGTGTGGAAAGCCAAACTTTTTGACC

Table 1

Sequence 540
CCGGGCAGGTACAGGCTGTTCACCAGCTTGCTCAGAATCACGCCATTCTTTCAGCCAGAC
CTGGAAGCCCAAGCCGCCCANCGGGTCTGGGNCGGGCCANATTCAAGGGNCCNANCTTGA
NCTTATTGNATCCNACTTCCAACNAGCCCGGCTTCCCTTCCNAGCTTCCCTTCGGTCANT
ACTTTCTTTCTTCGNNTTTTTGGGANCTTGGCAACTTTCGGCGGGCTTCAATGGCCCNTA
GGGAAAGGGACCCCTTGGTTGGGCCCATGGTCNTGGGGGAAAGAAGGCTTCCTCAGGGGC
TCGCAAGGAAGGAGTGAAGACTTGTGACCTCGGCCGCTCTAGAACTAGTG
Sequence 541
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATCTGGGTGGAAGGTGACTCCTG
TGGGCGCGATGATGGGGTGGAGGGTGTCTGATGGAATCCCGTTGGGTCCCGGCTGCCCTA
CGTCACCCTTTTCACCCTTAACTCCGTAGAAACCAAGTCCTCTGTTGCCTTGCTGTCCTT
TTGGTCCAGGGGGTCCAGGTGGTCCTGGTCTCCCTGGAGCTCCAACTGGACCCATCTGTC
CCACATGCCCGGGCGGCCGCCCGGGCAGGTACTCTCAGAGAACAGGAGATATGTGTGCAT
GCCTTAGAAAAAGCCCTTGAGTAGGTAAGGAAGGAAGAAACCTATGGCAGACAGGATTGC
TGCAGCCAAGGGGGCTTCAAGCAGAAATGAAAGAGATGGCTTGTGAAGCTGCCCGTGTCG
TGT
Sequence 542
TTTTTTTTTTTTTTTTTTTCGNTTGGGGGACCCAAAAACCCCCAANAACNAGGGGACCCC
CCGGGCNGCAGGAANTCGAAAACAAGCTAAACGAAACnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnTNCTGGGGCNGGGGGGAAAAGGGNANCCGCNCACAANNCCANANAACAAACGAGCCGG
GAGCAAAAAGGGNAAAGCCGG
Sequence 543
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTCTCTTCTTAA
CCATTTGGTCCTCTGATATAAAACTTGCTTAACTGGCAAGATGGCTCACTTGGTCCTCAA
GCCAACATCAAGAAATATTTAGCTGTCTTAACACAGGTGGGAGACTTTTTTTTAATGAAA
TACATAGGAATCCATTAAGTAACATTAGCATGTCATGTGTTAAATAGCTTCATTTAAAAA
TGTTACAGATCAACAGAAGGGAAATCAAAAACTTATTTTTCTCAGTAACTACTTTACATA
CTAGTGTAATTAAAGGTTTAACTGGAAGAAAAATTCAGCATAAAAGTATAATTAAAGTAA
AAAGCTGGTATTCCACATTCCTGTTCCTATGAACACCTGAGCTGGCACAAAAGCTGAGTA
GTTTAATGCATTGGCATATAT
Sequence 544
GAANTGAAGCTCCACCGCGGCGGCGGCCGCCCGGGCAGGTACAATTAGAAAACCTGCATC
TTTTAATACAGTGAGATTTNGTATGCATACACTCTGGTGTCTTCATTTTGCAGCCCATTA
TATTGGCTTAAAAGCCANAAAGGTGCTCATGCATGTAATTTATACTTGGAGCAACGAATG
CCANTGTATGTGGNCGCGTNTGTGTGCACNTTTGAAAGGNAGGAGTTTTTAGAAGNAATG
AGAAGGAAAATTTNCTTTCTTGGGCATTCATTAAATAATTCAGNGTGAATATCCTTGTAC
NCTTGGCCGNTCTANAAACCAGNTGGATCCCCCGGGGCTGCAAGGAAATTTCGAANTNTT
CAANGGCTTATTTGANNCCCGGCGACCTCCNANGGGGGGGGCNCCGGGTACCCCAANCTT
TTT
Sequence 545
CCGGGCAGGTACATTATTGTTTATNTGAAATTTTAATTGAACTAACAATCCTAGTTTGAT
ACTCCCAGTCTTGTCATTGCCAGCTGTGTTGGTAGTGCTGNGTTGAATTACGGAATAATG
AGTTAAGAACTATTAAAACAAGCCAAAACTCCACAGTCAATATTAGTAATTTCTTGCTTG
GTTGAAACTTGTTTATTATGTACCCTTCGGGCGCGCTCTAGAACTANTGGGATCCCCCGG
GGCTGCAAGGAAATTTCGATATCAAGGCTTTATCGGATACCCGTTCGACCCTCGAGGTGG
GNGGCCCCGGGTACCCAAGCTTTTTTGTTCCCTTTAAGTGGAGGGGGGTTTAAATCTGGCG
CCGCCTTGGGCCGTTAATTCATGGGTTCATAAGCCTGGCTTTCCTGGTGTGGAAATTTGG
TTANTTNCGGCTTCAACAAATTTNCCAACAACCAAACATAACCGAAGCCCC
Sequence 546
CNGCCGGCCGAGGNACCAAAATTTGTGGGAGGGNANTNGAAACCCGGCAGANTTTAANAC
CNNATGCCNATAAANGGGGGGNCAGGGGANGAAGACGGGGGGCCCGGGNGAACAAAAACC
ACACGGNCTCTANGGAAAANGNGGAGAGAACTGAGAGCGAGGTGNGGCAAGAAGCAGGCT
CGGAGCCGGAGGAGGGNGGCTANCGGCNNTAATCTCAGGGAGAGATGGCGCNGTGCGGNC
AATGATGCAAGCNGGNAAGGGACCNGGCGGGGAGGGAAAGGGACGAGGGAAG
Sequence 547

Table 1

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAGACTGGG
TCAGAAACAGATATAATACATTATTATTTTAATATATTGCTTGTTAATAGCTTTAAAAAT
ACTACATTCTATGGTAGATTATTGGTTATATAAAAGGTAGAAATGTCATAAGTTTTNTAA
TTNCCAGTCTGTAAAACCTGTCAGTTGAGTGCTTTGAAGGTACCTnnnnnnnnnnnnnnn
nnnnnnnnnnnnnNGNTTGCTGGGAAATTCCGNTATCAAAGCTTATTCGATACCCGTCG
ACCTTCGAGGGGGGGGGCCCGGTTCCCCANNCNTTTTGCTTCCCTTT
Sequence 548
GCAGCAGGAGCCTGGGAAAGAGGCCNTCACCCTGGCGATGGCCTCTTTCCCACCTCCCCT
TCAGTTCANANCCAATATGGNTCTAGAATCTGGCACTTTACTCATTTCCTTTGATAAATT
AGTACCTCNNCCGCTCTAGAACTAGTGNATCCCCCNGNCNnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnNCAGTAATCATTNTCATANCTTTATTTCCTTTGTGAAATT
GTTATNCCNCTCACAAT
Sequence 549
AGGTCACAGTTATGGCAAAGTAGACAAAGCATTTGTTCATTTGGAGCTTAGAGTCCAGGA
GGAATACATTAGATAATGACACAATCAAATATAAATTGCAAGATGTCACAGGTGTGATGA
AGGGAGAGTAGGAGAGACCATGAGTATGTGTAACAGGAGGACACAGCATTATTCTAGTGC
TGTACCTGCCCGGGCGGCCGAGGTACCTTACATCAATGGCAAGTTTAAGAAGGATAATTA
ATTACACAAACCCTTCACAGACTGCTCTGGTGCCTGGTGGTGCTAGCTCCTCCCACCTCA
GCACCTGCTGATTTCTGGGAGCAGC
Sequence 550
CGCCCGGCAGGNANTATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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AAAAANNCCCNTNNCNTTNNAAAANNAAAAANCCNCNNCCCCCCAANANNAAAAAATTTA
AATNAAANGTTANCCNCNNCCCNGAGCCGGGGGGGGGNNCCCAANCCNNNTTTTTNTGGC
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NAAAACANTTNNCCCTTCCAAAAAAAAANAAAANCNCAACCNGAAAAANAAAAANNGNCA
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AAAAAAAAAANAAAAACCCCCCCCAAAAANAAAAANAAACNGCCCAAANNGGGGNAAAN
NNNNTTNGGNTAANNCCCCCTTNNCCCATTTNCTNAAAAAAGNNNGGGGNNGNTTNGGNN
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GGGGAAAANCTANGAAAAAAAATTNGGGCAAAACCCNGCCCCNGCCCCGGGGCCCGTNNA
GGGGCNNNTTTTNTANNTNNAAACAACCCCCCCCCCCCNAAAAAAAAA
Sequence 551
CCGCGGTGGCGGCCCGCCCGGCAGGTACTTGTTATCAACACGTTTGTATCAGAGTTGCTT
TTCTAATCTTGTTAAATTGCTTATTCTAGGTCTGTAATTTATTAACTGGCTACTGGGAAA
TTACTTATTTTTCTGGATCTATCTGTATTTTCATTTAACTCAATATCATACTACCGGCTAC
ATCAAATCAGTCCTTTGATTCCATTTGGTGACCATCTGTTTGAGAATATGATCATGTAAA
TGATTATCTCCTTTATAGCCTGTAACCAGATTAAGGAATACAGCTCTTAAAAAATCAAGA
ACTTCCTGAGTTTCACATATAAAATGGTGACAAACACCTGCTTCTGATAAAGTTTATCCA
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GACATAGTTTTTCTCCTTTTGTACCT
Sequence 552
CCGCGGTGGCGGCCGAGGTACAAATTCTCTTCTTAACCATTTGGTCCTCTGATATAAAAC
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GTCTTAACACAGGTGGGAGACTTTTTTTTAATGAAATACATAGGAATCCATTAAGTAACA
TTAGCATGTCATGTGTTAAATAGCTTCATTTAAAAATGTTACAGATCAACAGAAGGGAAA
TCAAAAACTTATTTTTCTCAGTAACTACTTTACATACTAGTGTAATTAAAGGTTTAACTG
GAAGAAAAATTCAGCATAAAAGTATAATTAAAGTAAAAAGCTGGTATTCCACATTCCTGT
TCCTATGAACACCTGAGCTGGCACAAAAGCTGAGTAGTTTAATGCATTTGGCATATATAT
GCCTTAAGGACTGTACCTGCCCG
Sequence 553
CCGGGCAGGTTTTTTTTTTTTGTCATTTTAAATGTTTATTTTATTTTGCACAATTTTAAC
AGTAGAGTAATTTTGCTGTGGAAAATAAAATTTCATCTTGCAAGAAAGAGAAAACTCAAG
ACCACCAACTGGCGTCTTTATTTACATATTAGAGCGGGTCAGCCAATGAAAATCCTGGGC

Table 1

CTTCCGTGTGGCTTGTGGCTCAATCATGATGTTGATANGAGAAGGTTTAGTTGTGTCTGC
TAGGCTCTGCCTCAGGGATTTTTGGAGTTCTTCTGGTGTTTGTACCT
Sequence 554
CCGCGGTGGCGGCCCGAGGTACCCCGTTCTGCCTGAGCATTTTTTCCTAAAGGGAAGAAT
CAATAGTTTCTGACTGTTTTAACAGCTGAAAGCTCCAACTGGAGGCAGAAGATGGGATGG
CTTTTCACACACGTGCGTGCAAGTTTAGCCACCTCAAAGGCCTTGTTCTTAAAGCAACAG
TGCTGTTTGCATTATGAAATGTCTCTGGAGTTCCCCTTTGGAAAGGCTGCTGGTGGGCCA
CATGGTCACGATACTTTCAAGTCACACCCTACTTTGTGACCTTATCCTCAGAGTAAAGGC
TTTAGAGGAAAAGGGACCCCACAGTCTCACCCATTACCTGGCTGTCAGCATCTCCATATG
CTCCTGGCTGAGTTTTATTGAGCATCAGCTGGGGATGTGAGCAGAAACCTGAATCCTTGA
GACAGGTGGTTTTCAAAAAGGAAGCCATAACAATGAGTGGCTTAGTACCTGCCCG
Sequence 555
CGAGGTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTNGAAGAGAAAAGATATTTAACCATT
TCTCAGGCTAATCTNTTAAAGCGCTCAAAGTGTTTTCACAAGTGCAAGGGGAGGGATTGT
TCTCAGCCCAACATTTACCCAGTTNTTTTTCTTANACCACNCAAAAAACACTCTCNAATT
TACGGTGCCTTTANACCTTTACTTT
Sequence 556
GGCAGGTACACAGCGGCAGTCGCGCCCACACGTCCATGACTGGTCGTCCTAGATTTTAGG
TGTCGATGAATACGGCCCACTGGGAACTGCAAGCCGGCTCTCTGCGAGCGGGAAACCGCC
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GAAGCTTAAAGCAAGCAAGGCAGAGAAAANGGNTAATCGGACCCACGGNGGGNATCCCAC
CAACNTANTTNTTTTTTTGAAACCGGGAANAAAAAAGGGGGNTTTTTNCCCCCNTTNCC
CGGNNNCCTTTTTAAAAANCCCCCNGGCCCNTTTTAAAAAANAGGGGGGCCCCCCCCGC
NGGGGGGGGGGNNNTNTTTTNAAAANNTTTTTTTTTCCCCCCCCCCCCCCNGGGGGGG
GGGGGGGCCCCCCNNNCNATTTTTTTTTTTTTTTTTTTTTNNAANAAAANAAANCCCCCC
CCCCCCCNAAAAAAAAAAAA
Sequence 557
CCGCGGTGGCGGCCGCCCGGGCAGGTACATGGGCTGGAAGTGGGGATGTCCATGGCCCAA
GAGACCCCTCCAGCTTCCAGCCCCTGGCAACAGCGGGAGAGCAAACCCAGCACCAGGGAC
TTGGCGTGAGCCAGGGCCGGGAGGCCCCCAATCAGGCTCTGGGGTATCAGANCAACCAAN
TTGACGTAGTGTGAAAAAATAGTATTCCTTTGATAAAAAATACTGTCCCTTGGTCTTCTC
TAAGTTTGAAACACCCTGGGGAGCTTTATTTTTTAGCAAAGCCAATTTCCCATACCCACC
CAAAANTTTTTNCATTCCAAGTTTTAGGNTAAACAGGNANTTTTAAACCGTAAAAAACTT
TAAACTTTAAATTTTTGGAAAGGNCCTTTTGNANTTTAAAAAACCCNTTGGCCCCNNTT
TTAAAAAAATNANGGGGNNCTNCCCCCGGGGCTCTGGGNGGNGAATNTTTTTTNTTTAAA
NAGTTTTTNTTANTAACCCCCCNCCCCCTTTTNGGGGGGGGGGGCCCC
Sequence 558
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AAGCTCCGCCTCCTGGGTTCACACTTTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACT
ACAGGCGCCCGCCACCACGCCCAGCTAATTTTTTTGTAGTTTTAGTAGAGTCGGGGTTTC
ACCGTGTTAACCAGGATGGTCTCGATCTCCTGCCCTTGTGATCCGCCCGCCTCGGCCTCC
CAAAGTGCTGGGATTACAGGCGTGAGCTACCACGCCCGGCCGAGGTACTGTTCCTGTTGG
CCGAGTGGAGACTGGTGTTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGT
TACAACGGAAGTAAAATCTGTCGAAATGCACCATGA
Sequence 559
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GCTGGTATTGNGTATGCTCAGAGAGGACTGAAAAAAAACGGTATTTTNTGTATCAGTCCT
NNAAGAATAAATATTTGNGGNCAGNTCAATCTTGNNTGNTTNGACAAGACTGGAACTCTA
ACTGAAGATGGTATTACATCTTTGGGGGANNCAACGAGNGGAAAANGCNCCGATTTCTTT
NACCANAAGAAAATGTGTNCCATGCTGNNNNTGGTNAAACCCCAGCCNGTTGCTAGCANG
GCTACTCCCCATTCACTTACAAAA
Sequence 560
NCTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAAA
CTGCCGCCACATGCACTCCTCCACCGCTGAGAGTTGAATAGCTTTTCTTCTGCAATGGGA

Table 1

GTTGGGAGTGATGCGTTTGATTCTGCCCACAGGGCCTGTGCCAAGGCAATCAGATCTTTA
TGAGAGCAGTATTTTCTGTGTTTTCTTTTTAATTTACCTTCAGTCAACTTTACCAAGAAG
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Sequence 561
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGAACTTGCTACTTTTT
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TTCAGCTCACCACAACCTCTGCCTCCTGGGTTCAAGTGATTCTCCTGCCTTAGCCTCCCG
AATAGCTGGAATTACAGGCACGCACCACCATGCCTGACTAATTTTGTATTTTTAGTAGAC
ATGGGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACTCCCACCTTCAGGTGATCCGCCC
ACCTCGGCCTCCTGAGGTGCTGAGATTACAGGCGTGAGCCACTGTGCCAGCTTGCTAATT
TTCACAGAAGTTGATGGCAATTCTTCACATGTAAACAGTGCCAGTGCACAGAACCTTTAT
ATATTTTTTGAAGCCAGTACCTGCCCG
Sequence 562
CCGCGGTGGCGGCCGCCCGGGCAGGTACACAAGTCAGTCCAACAGTTAGTGTTAATTACT
AATAATATATGAAAACCCTGCCAACACAATTGCTGCTACATCACCAATATAATTATTAAC
CACTGTCGGAAAAACACACATAAATTCAGGTAAGACTAAAAGCTGTCTCACAAAAAGAAA
AAAGAAATCCAATGGATCCACTAATGCTATCAAAAGGGACATGCAGGAATGTAACATGAC
ATTTTTAGAAATGTGTGTTTCTAAAAAGAAAAAAAAATACACTAAAATGCCAGTGGACTA
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CTTCACAAGATCTATCACAGCCATCTTTTGGAGCGTATGGTTAGGCTGGTCCTCCTGTGG
TGGTAGGGGCAGTCTTTTTGAAGCTTTAAGTATCTGGTGGTACCTCGGCCGCTCTAGAAC
TAGGTGGATCCC
Sequence 563
TTNCAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCGGAAATTATCTACA
ATGAAGAAAATTTNTTGGNAAACTTATCCAACAGCCTGGGCAAGCTACCTCTCGCATGGG
AAATTGATAAATCTGAATTTGATGGGGTGACCACAAATTCGAAACACAAATCAGGCAATG
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GTCCTCAGCATTCTCCTCTTGAAGATATTAAACAGCGGAAAGTATTAGACCTCAGACGAT
GGTACCTGCCCG
Sequence 564
CAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGGNCCCAGTAATTTATNGATTAAATCATNGTAATCNCCAATANAGATTN
CAATAGAGANCNCCAACATGATTNCATGCNTTNAGNGGANAAATNTTNCCNGGTTAAG
Sequence 565
AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGGGATACAGGAG
AGAANCNANCGNNTTTGTCTTTGATCNNAANGAATCCGCATNGTANAAAGTGGAANATGN
NATGNGATGNACACATTAATTATNATCATNCCCTTNNNNCTACCTAAAATACTCGCAGTGG
CTCNACCTTACGCATATAAAAACTNCGCATTCCAGCCCACCGCCTTCA
Sequence 566
NCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATCTCATTT
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CTAGAAACTAGATCAACCAGCTAAACAGAAGTTCCTTCTGTAGCATGGCAGCGGGTTTCC
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TTGTTTATTATGCCTACAAAAATTAATATTTATATTTATTGTGTATATATATAAAACCTT
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CGCTCTAGAACTAGT
Sequence 567
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TTCCCTTCCCTGGGAGGCTAGAACANAGAAGCCCTTAC
Sequence 568
GAATTNGAGCTCACCGCGGGGGCGGCCGCCCGGGCAGGTACATTTTTAATCTGTTATAGT
TNTTTGCAGTATTAAAATGGTGAGTAAAAANAAAAAAAAAAAAAAAAAANNGGGCTTGTA
CCTCN
Sequence 569
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCGGACCTCATCCGCCTCCT

Table 1

GCTGAAGCACGGGGCCAACGCAGGTGCCAGGAACGCAGACCAAGCCGTCCCGCTCCACCT
GGCCTGCCAGCAGGGCCACTTTCAGGTGGTGAAGTGTCTGTTAGATTCGAATGCAAAACC
CAATAAGAAGGACCTCAGTGGAAACACGCCCCTCATTTACGCCTGCTCCGGTGGCCATCA
CGAGCTTGTGGCACTGCTGCTACAGCACGGGGCCTCCATTAACGCTTCTAACAATAAGGG
CAACACAGCGCTGCACGAGGCTGTGATTGAAAAGCACGTCTTCGTGGTAGAGCTGCTTCT
GCTCCACGGGAGCGGTCAGTTCAGGTGCTGAACAAGCGGCAGCGCACGGCTGTAGGACTG
TGCTGAACAGAATTCAAAAATAATGGAATTGCTTCAAGGNGGTACCTCGCCCGAGGGCTC
CTTCCTTATGACTCCATTCAAATTTACGGGNTATTAAAGCAGGGGCTTCAGTGGCCCGGG
GTCCCT
Sequence 570
CCGCGGTGGCGGCCGAGGTACTAAAAACACAAAAGCACTTATCAGACACCCTATGGCATT
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CACTGGCTTCCTCCTGTAAATCATCTCCAGCAGAGGACTCTGACTCAGCCGGAGAATTTT
CTTCTTCTAGTTCAGCATATTCATCAGAGGTTTCGTTCTTTGTTGTATCTTTATCATTAT
CGATGGTGACAGCTTCATCCAGGGCAGCATTTGTAACCTTGGGGGTTGTTTCAGGGGTTT
ACTTCCGTGGGTTTCCCTCGCCGCTGCATCTGTGACCTCTGGCCCCGGTTTCAGCACTGA
CTGCTTGTGGGTCTCCGGAGCAGCCTTCCACGTGACCTGGGACAGGCAGATGCCTCTTTT
ATGACCACAACTTGGTAGGTACCTGCCCGGGCGGCCCGCTCTAAAACTAGGGGGGGATCC
CCCCG
Sequence 571
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TTATTCCTTTTGAGGACAAACAATTAAACCACATCCAAGGTCTTAACTTACAGACAGAAA
CCAAAGTAGCCATTTAAAGCGTTAGATATCGGATACAAGACATACACTGGGGAGAATGCT
TCACCATCTGAAGCTCACACCACAATGGCCCAGTGGACAGCTGTGCACTCTGCTTGTGCT
TAAGTGCCTGGGTGTGGCTGAGGGGAAGGCGTGTCTGCAGAACAGAAGAACAGCTGTGTT
TCACAAGTACCTGCCCG
Sequence 572
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TAAAAGGTCTGTAGCTCCAAGTCCACATGAAGTGAGTGTCTTCAATGTGTTTAGAATAGT
GAAGTAATACTAAGGTCACTTCTGAATAATATTTTTGTCTTTTTTTTGTTTGTATGAACA
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CAGTAATCTGTAATCTGCAGGACTCTTCCCCTGTCTGGGAAAATATTTGCCACAATTTGC
CTCAAGCAAATTCTTCTTGGTCACTCAAGGCTAAGAAAAAAATTCAGGATTGTAAGGAAG
TGGAAANTTTTTTCTCTCTCTCTTTTTTTTTTTTTTTTTT
Sequence 573
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ATTGGAGTTCATAAGTTAGTAATTTAAATCCTTAGACAAAGTTACAGAAAGTGCATCTTC
TTATTTTCCATCTTCATACAATGTTAATTTTTTTTTTGGTGTTTATACCTTTTAAAAAAT
AAAAACAGCCAAATACTTAAGCAATATGTACCTCGGCCGAGGTACGCCAAGGGCGCCCTG
GAGACGGAGGATCCTGCGTTAATC
Sequence 574
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AACGCCTAAAAGCTTCAGAATGGTTATGTGGCGCAGACCAAAATTGCACGCCTGACCACT
GAGGGCAGAGAGCTGCTGTGAATAGGCCCAGTCTTCATCGTTAGGAGCAGAGATCACCAG
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TTTGCAAACAATGCCCTCCTTCTTCTGCTTCTCCATATCTTTGATTCGGGACTGGAAAGT
ATCGATCAGATCAAACACAGACTTCATTGTTATTGGTACCTCGGCCGCTCTAGAACTAGT
G
Sequence 575
CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACACAAGGGAGAGGCTCCT
GGGCAGTGACGGTGGAAGCTCCACTACCTCTGGGATTAGGGGCACTGTTTCCAGAGTCTG
TAAGGTCGTGAGGATGTCACTTATGCTGTGCTCCTGTGGCTGGTTCTCCCCTCCAGGGAG
TCTTTCCCCAGCCTCAGCTGGTTCCTGCCCAGCCTCAACCCCAGGCTTGCCTTCAGCACC

Table 1

TCGCTCCAGGCCTGGCTGTGAGAGCCNAAAGCGTAACCTTGCCCGGGGCGGCCGCCCGGG
CAGGTACAGGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCCATCATGTGGCCCAACTCT
CCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTTATTTTGGAGTGGTANG
NNGAACTTGTTTACTCATTGAAGCAAAAATTCTGCTTCCTTTTATTTTTATAGGAATAGA
NGAAGGAAAGGGTCAGAATGCGTGCCCAACTTCTTTACCCCCCAA
Sequence 576
GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGAACTGTAGAGTCA
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AAGACAGCAAAGAAAAGAATGGAAAAAAGAAGAGGAAAAGTTTAGCCAAGAGAATCAGAG
AAAGATGCTGCATTTTATAATCAAAGCCCAAACTCCTTTCTTATCTTGACCATACTAATA
AATAATTTATAAGCATTGCCATTGAAGGCTTAATTGACTGAAATTACTTTAACATTTTGG
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TTAAAAAGGAAATTAATATGGCTTCACCAAGAAGCAAAGTTCAACTTATTTCATAATTGC
CTACATTTATCA
Sequence 577
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ACTTGAAAAGAACAATGCAAAATTTAGTAAGATGAAAGGGGAAATCTATTAAAATGTTTG
AGAACATTTTANAGCACGGGATTTGGNAAATTTCCCCATAGGACAGATGGA
Sequence 578
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AACAAAAAGCATTTGAATTGTATTTGGTGGAACAGCAAAAAAAGGAGAAGTATCATTTTT
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CACTTGCACTGGTTGGCAAGATTAGAACAAGAGGAACACATATGGAGTTAAATTTTTTTT
G
Sequence 579
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AACTGGTTTGTCTAATATTTTA
Sequence 580
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AAAATGGTCAAAACCTTTAAAAGATCCACAATAGATATCTGAAAATCTTAGCAATGCTGT
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Sequence 581
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GATTGGTTTTCCCAGGGAAGAGGGCGGAGCAGAGCAAAGTCACTGTGAACCCTGGGCCAG
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A
Sequence 582

Table 1

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AGCCTCCCAAGTAGCTGGGACTACAGGCGCACGCCCCCACACCCAGCTAATTTTTGTATT
TCTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGATGGTCTCAATCTTTTGACCTCATG
ATCCACCCGCCTCGGCGTCCCAAAGCGTTGGGATTACAGGCATGAGCCACCGCACCCGGC
CTCACTTCAAGAATTTTTTACAAGCACAGAAACTATATCTCAAGTGTATGATAAACTGGT
ACTATAATACTATATTGGATTATAAATATACAAGCTATTTGAGGGGGGGTGATAGCTTCA
CTACCTTCACCAAGCTTAGGAATATATATAATCTACTTTG
Sequence 583
ACTATAGGGCGAATCGGATCTCCCCGCGGNGGCGGNCGCCCGGGCAGGTACCACTTCTGA
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TGAAATTCCAGATGCTTTCGATAGAACAGAGAACATGTTATCTATGCAGAAAAATGAAAA
GATAAAGTATTCTAGGTTTGCTGCCACAAACACTAGGGTAAAAGCAAAACAGAAGCCTCT
CATTAGTAACTCACATACAGACCACTTAATGGGTTGTACCT
Sequence 584
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTGAAAGAAGCCAGAC
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ACAGAAAGCAGATTGGTGGTTGCTGGGGGCTGGAGGAAGGAAGGAATGGAGAGTATCTGC
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TGCACTATGAGGGGCCCCAGATATGTAAGACAGAAGTCCCAACC
Sequence 585
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAACATCCTTTCAA
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CTTTCACAATCTTTGTTCATTTTTTTACAGAGCAATGGGAAGTNNTACCTAACCTTTTAC
NAAATTCATTTTTTTGGGT
Sequence 586
NCGGGGGGGGCGGGCCGCCGGGCCGGGTCCTTNAAAAANTNGAGGAANTTNTTAATGGNT
CCCANTAGGGCNTTTNAAANCTNCAANCGGCTTTCTTTNTTNAATTNNAANGCTAATNCT
CTNGCAAATCCAATAAAATCGGNCNTTTNNTATNCATTCCNGCTTTATATTTTNATATTT
NAAANGANGCCNCCNGTAAATNCTATTTTNTTTGGCAAAATACCAAAAGGGNCAAAAAAC
CTTTAAAAATTNCNGTAAANCATAANGTAGTTCTNAGGGGGAAANGTTATCATTCCCAAN
GTCCTNGNGTNGTTCCTTCCTTAAT
Sequence 587
CCGGGCAGGTACTACTTTGAGGGCATTAAACAGACCTTTGGCTATGGCAGCACGCTTATT
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TGGGGCTTGCGACTCACAGGATTGCATCGTCCCAGCTGCTAACTTGGGGCCGGGGCCCCT
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GGACTCCAGCCTGCTGGACACTTCANTCCAGCTCTCTCCTGACTGGGGCTTGCGACTCAC
AGGATTGCATCGTCCCANCTGCTAACTTGGGGCCGGGGCC
Sequence 588
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AGACTATGTCACAAATGACATAAATGCCAAAATTATAGATCTTAAGAAGACAACACATAA
AATACAGACTTAGACAAAACAAATGACTAAAGCTGCATAGTTCTGCTAGACTTTATTCAA
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CCATCATATACTGAAAAGTCATCTTCAAATTTGT
Sequence 589

Table 1

AGGTACCACTGAATCCAAGGCTCTCTTGGGTAGCCTATGTGCCTCTTGGATGGTATGTGA
ACAAGGTAGGGATGAAACTGCAGATGTCTGAAAAGAGCTTAAGCATCCTGACAGCTTGCA
TTTTTTTTTTAATTTTTTTTTCCTCACCGTATTCCACATACCTATGGCTGGGGAAGGTAA
TGTTACCTCTGCAAACAGATGCTCTGGTAAGAGAAGAAAGACACAGGGAAGGCAGAGAGA
GCAAGACAGAGGGCTCAATCACAAAGCTGGGACAAGGAGAGCAGCTGTTTTTCACACATT
CCTGCTCCTCTCTCAGCTGGGCTCATGTTCACTCCGTTTCATTCCAATCATCAG
Sequence 590
CCGGGCAGGTACAGGACAGCCAGCGTCATCATTGCTTTGACTGATGGAGAACTCCATGAA
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TTGAAGAAGTCCTGCATCGAAATTCTAGCAGCTGAACCATCCACCATATGTGCAGGAGAG
TCATTTCAAGTTGTCGTGAGAGGAAACGGCTTCCGACATGCCCGCAACGTGGACA
Sequence 591
CCGGGCAGGTACACGGAAATCTGGACAGTGCTCCACAGATTGATACATTAGCCTTTGCTT
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GACCAGTGTTCTTTATTGCAAAAACATATACCCGATTTAGCAGTGTCAGCGTATTTTTTC
TTCTCATCCTGGAGCGTATTCAAGATCTTCCCAATACAAGAAAA
Sequence 592
CCGGGCAGGTACGGTGTGNTGTCGATGAGCACGATGCAATTCTTCACCAGGGTCTTGGTA
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GAAAAAANTTGATAATTTTTCTTTTTTTCTACATGCACTTAAGACTAAAAACACAGGTTT
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NGGNAAGAATGTTCCAGGGCAGGGGNAACCCACA
Sequence 593
CCGCGGTGGCGGGNCCNCCCGGNNTTNNAAANNNGGGGNNNTNTACATAGAGGTGAGGGT
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NAGGCCGGGAAGGGGGCCATTTTGGAAGCCAAG
Sequence 594
AGGTACTCTGAAGGTAGGATGTGCAGCTTTTTCTTAGGCAGGATAGATGTAACATAGATG
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TTGTGTCTCTGCCTCACCCATAATGGCTGGTTTATTCAATTATTCATATATTCCCGTTTG
TGTTTNCAANNNAGGTCTACACAGCACCAGCCTACAAAGGCAAGGTCCAATCCGTGTAAA
AAAT
Sequence 595
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GTCCCCACAGTCTNGGTCCTGCTTCACCTTTCCCCTTGACCTGAGTAGTCGCCATGGCAC
AGGTTCTCAGAGGCACTGTGACTGACTTCCCTGGATTTGATGAGCGGGCTGATGCAGAAA
CTCTTCGGAAGGCTATGAAAGGCTTTGGGCACAGATGAGGAGAGCATCCTTGACTTTTGT
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AAAAATTTG
Sequence 596
GGAGATTATGTCTACTTTGAGAATTCCTCCAGCAACCCATACCTAATAAGAAGGATAGAA
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AGAATCTGAAACAACAGTTGAGGCTGACTTGACCGATAAGCAGAAACATCAGTTGAAACA
TAGGGAACTCTTTTTGTCACGCCAGTATGAATCTCTGCCCGCAACACATATCAAGGGGAA
A
Sequence 597
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TGGCTGTGGACAAAATAATGAAGGACCTGGACCAGTGTAGAGATGGCAAAGTGGGCTTCC
AGAGCTTCTTTTCCCTAATTGCGGGCCTCACCATTGCATGCAATGACTATTTTGTAGTAC
ACCTAGAATCTTTGTGAATAATGTGAGGCCAGTTCTTCCATAAGGAAGGCTGGTTATGGA

Table 1

TATTCATAAGGTTATTTCAAAGTTAATAAAGACAAAGTGGCAACTGTAGAAAGTGTTGCC
TCCAATCTTGGTCCGTATTTCCAAAGC
Sequence 598
NCGGNGGCGGCCGAGGNNNNNNNNNNNTGGTTGAGGGGGAGGAAAAACCCGCCACCCNNGC
GGGAGNGCAGNAGCACGACCNCANTTTACNGCAACCGGCAGCNCCCNCNCANAANAGANN
CNCCNGCCNCAGCCNCCCAAGNAGCNGGGANNACAGGCANGCGCCANCACACCCANTTAA
NNTTTNTNTTCCCAGGGGNGAGGGGGCCCCACCAAGAAGGCCAGAATGNANNTGNNCCCC
NGACCGCAAGGGANACACCCACCNCAGCCNCCCAAAGGGCNGGGANNACAGGNGNGAGCC
ACCGNGC
Sequence 599
CCGGGCAGGTACAAAGCTATAAAGGAACGTTTTTAGAGAAAGCACTGAAGACACACATTT
TGCTGACCTAAAAGATTTTAAAATGAATTAGAATAATTTACATCATATAAAGAGGTATTT
AGTCTTTAAGTGGAGAAAGT
Sequence 600
NGNGGCGGCCGAGGNACNNCANAANTNNNTTCGGGGGNCANAAAAACCCCCCACNCCCCC
NNNCNAGGACACCNCGNGGAAGTTTTTNAAAAGCCNCAGGGGGGGGGACCCAANAAAGNG
AAGNGACCGNCNCNNCCAAGGGCCNCCAANANGNCCGANGNGANGGCAGCNGCNNTNNAA
GANGANTNNTTNTNNNGCGGGGGNAACGNCCCCNANAAAAGAGGGACCNGANCGGNCNCC
CCGCCCGGCGGAAGCACGAGGAGNNCNGNGNCCCCACGNCCACGGNNCCCGCNACNGNGN
CCAACAANGNGNNNNNANCCGANNNCAGCANCAGGGANCNGCAGNCCAACGNGGAGCACC
NGA
Sequence 601
CCGGGCAGGTACTGGTCTACAGGGACAAGCAGTCTTTAAAACGAAACTCACCTTCAGACC
TCACTCTACGGACAGTGCCACACATAGAAAGATGACTCTGTCACTTGCAGATAGGTGTTC
AAAGACACATGAAGATTAGAATCTTGCCAATGGCTGGTCGTGACCCTGAATGCCAACGCA
CAGAAATGATTAAGAAAGAAGAAGAACGTTTGAGGGCTTCCATACGTAGGGAATCTCAGC
AGCGCCGAATGAGAGAGAAACAGCACCAGCGGGGGCTGAGCGCCAGTTACCTGGAACCTG
ATCGATACGATGAGGAGGAGGAAGGCGAGGAGTCCATCAGCTTGGCTGCCATTAAAAA
Sequence 602
AACNCCACCGCGGAGGCGGCCGAGGTACTGCATCAGTCGTGAGGAGGAGGGAAAACCCTT
GGGATTGNAAGACTATTAAGATCCTAGNAAGTCNNTGGTAGNTNACNGGGATGNGACCAT
NGAAGANCCCCCCGNNGNCACTAATCACACAAATAACAANNNNGAGAAGNAGGCTATAAA
ACAAATTNAGGNTGCTNTTTTCNANNGGGAAANAAACCAAAAAAAAAACAGAAAAGANGN
GAATCCCCCCCAGNNANGGGGGAAAGGNAAAGCAACACCAAANAAAAGCCCA
Sequence 603
AGGTACCACGCACAGGAGCCGTCACTTCTCTTGATGCAGGCGAAGAACTTGGCCTGGTGC
CCGTTGATGTTCTTNTNTGTGACCCANTCCATCCAGAGGCACTCGTCCGGGGAGGAGATG
TAGCACCGGGATCATGGGGCAGCTCGTGATCTTGCACTCGCAGCCCATNTGGTACCTGCC
CGGGCGGCCGACCGGGCAGGTACTTACTTTCCCCATAGGAAGACAGACCATAGGCAAACT
CTGTTTTGGGATCTNAACTCCATCACCTTTGTTTCAATATTTTTTTTTCTCTCTTGAACA
AAACTGAGATAATTTAN
Sequence 604
CCGGGCAGGTACAGGCACAGCATATATTTGAGAAAACATCTTACAAATTTCATTTACTAT
AGGTTTCTCAATAATCTTTACATTTAATCAATGAGAAAAGTGATTCAGTCTCTTGAATTT
TAAGTTAAAAAAATTAAAAAGTATTTCCAGGGACTCTTAAAGCTCTCTCCCAAAGTATAA
AATATTATGTACTGTGGGGTCAGATTCAGCATACTTGAGGGAACGAAAGACTTTTCGTTG
GGGCGTGACCCGTTTGATGTTTGGATGATCTTCAAGTGTTAGCAGCCCCGCTTTCTGTTT
TTCTTTTATCTGAA
Sequence 605
AGGTACAGACATTTTCAAAGTTGCCAGTGTTACTTTAATTGGACTGCCTTCGTAATTCAT
TGCCTCTGCTTCAACAATGTGCAACTCATCCTTTGCACCAGCCCCTAAACTGACCGTTCT
TAAAGATAACTGGTGCTCATTTTCATCATTATCCACCTTAAAGTGATAATCTTTGTCGGC
CTTTAGTTCACAACCGAAAAGATAGTTCTGGGGCCTCAGGGGGCTCATGTCCATGTCCAT
CACAGAATTCTTTAATATAAATACGAACGGATGGGGATAAATAATATTTAAAACTTAGAT
TATTCAATGCTTGCAAAAAA
Sequence 606

Table 1

CCGGGCAGGTACATATGATCCTTAGCCACCAGGGCACAAGCTTACCAGTAGACAATACAG
ACAGAGCTTTTGTTGAGCTGTAACTGAGCTATGGAATAGCTTCTTTGATGTACCTCGGCC
GCCCGGGCAGGTACCTTAACATTCACATGGAAGTAGTAAAAATAAGATTCTGGGTGCAGT
TCTCCAATGACAGGAAAAAAAACAAAGAGAATTTGAAGAATACCGTCAGAGACAAATACA
TTACAACCAAAATTGACTTCAAGGCACTTTTGAAGGAGATCAAATTTATAACAAAATAAT
TTAGTGAAAGTGAAAGCTT
Sequence 607
CCGGGCAGGTACCTGGACCTGCTGTCCCAGCCCTGCCGCGCTGTTTACATCTTTGCCAAG
AAGAACGACATTCCCTTCGAGCTGCGCATCGTGGATCTGATTAAAGGTCAGCACTTAAGC
GATGCCTTTGCCCAGGTGAACCCCCTCAAGAAGGTGCCAGCCTTGAAGGACGGGGACTTC
ACCTTGACGGAGAGTGTGGCCATCCTGCTCTACCTGACGCGCAAATATAAGGTCCCTGAC
TACTGGTGCGGCGCACCCTTCAGGGTCTTGAGATTGAGCTGCAGTCACAGCTGAGCATGA
AAGCTGCCTTGGAAGACACACTGGC
Sequence 608
CCACCGCGGTGGCGGCCGAGGTACCCAGGATGNTTTCTGGCAGGAGGGAGCNTGTGTTCC
TGTGACCTGTGACCCACCTCCACCAAAATTNCATGGGCTCTACCAGTGTACCTGCCCGGA
CTTCCTCTCCTACCTACAGTCCCTGCTCCTATTCCCACCTCAGCAACTGAAGCCGCCCCC
AGAGCTCTGCCTTGAGGATATAAACACATTTAAATTACTGTCATATGCTTCCTATTGCAT
TGAGCATGGTGATCTGGAGCTAGCAGCAAAGTTTGTCAATCAGCTGAAGGGGGAATCCAG
ACGAGTGGCACAGGACTGGCTGAAGGAAGCCCGAATGACCCTAGAAACGAAACAGATAG
Sequence 609
AGGTATTAACACATGATGGAAAAGTCATTGTGACGCCAATGAATTTCATTGAGTATAAAC
TCATCTACTTCAAATTTATTTTATAAGACAACCTAAGATACTCAAGATAATTATTTAATG
GTTAGCTCTTAAGTTGAATTGGTCTACATAATGCGTGGGAAGAAAACCAGATTTTTAGCC
TTCTTGCCAAATCCAGACCTCTGGTTGATTTTTCTTTGACAGAAGATGCAAGTTATTTTC
CAATTTCACAATTAAATGTATTTAACATGAACATTATTTTGCTTTAAAAACTATAAACAT
TGTAGGAGAATTATAGCCAGTCTTCAGTTATAACCACT
Sequence 610
AGGTACTTCGAGGTCTTCGGCGAGATCGAGGAGGCGGTGGTCATCACCGACCGGCAGACG
GGCAAGTCCCGGGGCTATGGATTTGTCACCATGGCTGACCGGGCTGCTGCCGAAAGGGCC
TGCAAGGATCCCAATCCCATCATTGATGGCAGAAAGGCCAACGTGAACCTGGCATACTTA
GGAGCAAAACCAAGGATCATGCAACCAGGTTTTGCCTTTGGTGTTCAACAACTTCATTCA
GCCCTTATACAAAGACCTTTCGG
Sequence 611
AGGTTTTGCAGCTCGTGCCATCATTTCAGAGCTGGTGAGCATTTCAGAACTAGCTCAACC
ACTAGAAAGTGGCACCCATTTTCCTCTCTTCCTACTTTGTCTTCAGCAGTTAGCTAAATT
ACAAGATCGAGAATGGTTAACAGAACTTTTTCAACAAAGCAAGGTCAATATGCAGAAAAT
GCTCCCAGGTAAGAGAATGCTGACTTGTTTGTTTTGTTTTTTTAATATTATATCTAGAGA
TTTCAGGTACCTGCCCG
Sequence 612
CCGGGCAGGTACANATGNGNNGTGTCTNNCAACTTTCATNAGAAAANGCCATATCTATAC
CATATTTTATTCGGAGTCACTGANGATGTAATGATATATCTTTTTCATTATTATAGCAGA
ATATTTTTATGGCANGATATTTAGANGNCTTGANCATNCCTATTAAAATANTGCCAAACA
CCAAATATGAATTTTNTGATGTGCNN
Sequence 613
AGGTACAGAACTTGGTCATAATATCTTGCATTTTATAGATTTATTAAAGATTAGTTTCAA
GTTCACATTCGCTATTCAGTTGTAAACCGAATGGATGGGAGGGGAGAAAATATAAGCTCT
CCACACAGGTATGCTCCTCTCTTTTCTGAGAGAGAAGGCATGGGATTTTCAGCATAAATT
CCATGTTATGTGAGTGCTGTTTGAGTTCTGAAGTTCCTATCAATATCTGTTCCTGCAAGT
GATCTCTGTAAGACCACCTTACATGCTGGTCTTAGTTATTGTTAAAATTGCAAGGTTTCT
TCACACCCTCTTTGATAAGAAGTGTTTAGCTGGCAGAGC
Sequence 614
CCGGGCAGGTACCTCTTGAGTGTCCCTTGAATTGGTAACCGGTTTGTTGTCATTATTTTC
TAAGCGAATATGCCGTAATTGGTTATTGGGAACATCTTTGACAAAGATCCATTTAACTTC
AAATTTGCCCTTCCACTTATCCTGAGACCAGACACCAGCATACGCATTATAGTCCACAAC
AGACTTCATTTCAGCCACTCCACAAAAATGTCCACTGCCATTCACACTGAAGAGTAAATA

Table 1

GAGTGGGCCTTTCCCATTCAGGGAACGGTAAGCTGCATCCAAACGCTTATTACCATGCTC
AGTACCT
Sequence 615
CCGGGCAGGTACTTTTGATTGTGCACGCTTTTAAATAGAGAGCAGAGTTGCCCACTTGAA
ACTACTCTCTTGCATGGGATATTTCAAGCTGTTTTACTATGGCAAGGAGCAGGGACCAA
AATGCTGCCAGGGCTTAAAAAGAGCCGTGATCAGATTAAACAGAAGTTGGAGAAGTGGAG
GGATGTGGGCCACACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGACCCTATTAT
GCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGGAAGAACTAAAGGAAA
TTGATGTGGAAGTGAGGAAGGAGATTGAGGATGCTGCCCAGTTTGCCAC
Sequence 616
CCGGGCAGGTACATGTACATTATAAAAAAAAAAGTTCAACTAGTATGAAAGGGTTATAAA
GTAACAGAAAAAAAAAAAAAAAAAAAAAAAAAAGGANTTAATCACAGTGGAAGCTTGCACGG
TGGGCCACG
Sequence 617
CCGGGCAGGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTGGCGAGAAGGACTCAGTG
ATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGCTGCGAG
GTGCCAACAAGGCTAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTATTTT
CCAGTCGGTACCTCGGCCGCCCGGGCAGGTACCCAAGGGATGTTTCCAAGCTTCTTGATC
TTTAATCTTTTAGCAACCTTCTGATACTGGATTTACCTTCCTAGGTGTGGTGCCCTCCTT
CTGGAATTTAGATCTCTGGGGCAAACCCTGTCAGGAT
Sequence 618
CCGGGCAGGTACCCTGTGGCAAAATTAGTCACTGGTAATGAGAAAGATATCACTGAAAGC
CTCAAGTGCCTGAGAAACAGTTTACTCATCCATGGGATCTCGCCAATTGTGAGGAAACAG
CTCAATGGCCATTTCCAGTTATAAGCAGCTTATTTTTACTGATTGGACCTGGTTACCTAT
CATTTCTAAAAATAACTTCTGATACAATTTGTACTTCCAATTTATAATGAATACTTTCTT
AGATTTTAGGTAGGAGGGGAGCAGAGGAATTATGAACTGGGGTAAACCCATTTTGAATAT
TAGCATTGCCAATATCCTGTATTCTTGNTTTACAT
Sequence 619
GGCGGCCGAGGTACTCAANACATCTTTCAATAAAAATGGGGNTCGGCTTCTCTGGAGTCA
CGGACAGTTGTTAAGGGCACCCCAAAANAGTTACTCTNCCAGGTTGCCTTTGNGGTGGAT
GGCCGGNGTTTGGGCTTTGGTTTATTAGNGTTCCTCCTTAGGCTGCGAAGAATATTCCTC
NCTCCGAGGGTCTTCGNCTGTTTCGTATGGAATGACAGCATTGTCCCCTTTATAACCCTG
GGATGCCTGATCCTNCTCTTTCTTNCGGATGGGCCCCAGCTCATCATCACTCC
Sequence 620
ACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACTGAACAAAG
GCATAGCCCTTGTGCACAGAACAGCCGGCCACACGGCCATACTTAGAGAAGATGGTCTCC
ACATCTGATTTCTTCACCAGAGCTGTGTTGAGGTTTCCAATGAAGACTCGAGAGTTGATG
GACTTGGGGTCATTCTTGTTGGTTACATTGCTTGCCTGAAGCTTCAAGGACATGGTGCCC
ACTTAACAAACATTTCTTGAGTGTCCTCCTCTGTGCTGGCACTGTGGAGATGCTGGGAAA
CACCGTGCTCACCAGTCTTCTGCTCTACTTGCTTTTCAAGAAGCCCCCTCTCTGGGAACC
AGTAACAATGATGAGCTTAGCCAGCTGTTTCCTCCT
Sequence 621
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ATNAAATNTTTCACTGAAANACATGGTTNACCATCCTCCCCCACCCCCACAGGGGTTACN
TTNTAAAACCAAAGCCCNCGGCCTCCCACCTNCTGACTNCTTTACCAACTGGGNGAGGAA
AGGGACAATGGTNNCCCANGGGAAGGGCATGGNTGGCNCTNNGGNACCTGCCCGGGCGGC
CGNTTTAAAACTAGGGGATCC
Sequence 622
CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGAGAGCACA
ATTGGAGCGGCCTTCCTCACACAGACTGTCTGCCTGGATGACACAACAGTCAAGTTTGAG
ATCTGGGACACAGCTGGACAGGAGCGGTATCACAGCCTGGCCCCCATGTACCTGCCCG
Sequence 623
CCGCGGTGGCGGCCGAGGTACATTATATAAGGGATTTTTTTTAAGTTGAAAACAACTTTC
TTTTCTTTTTGTATGATGGTTTTTTAACACAGTCATTAAAAATGTTTATAAATCATAAAA
AAAAAAAAAAAAAAAAAAAAAAANAGGGGGGGACCTGCCCGGACCTGCCCN

Table 1

Sequence 624
CCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTNNNNAAAAANNNNNTTTTTTTTTNNTTNNGGGGGGGGGNNGNCAAAAAAAAAAAA
NNNNCCCCCCCNNAAAAGNTTTTTTTTTANNGGGNCCCCNNAAAAAAANNCNGGTNNTTTT
TTNGGGGNAAAANCNNNNTCCCCCCCTNNTTTTTTTTTTTT
Sequence 625
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACGGCNNNAATGACA
ACACTTAATTCCAGCTATACGNGGCAAAAGATGTTATGGNAGGGAANAGAGAGGTTNAAA
TACANATGAAATAAAGGGTCACCATCTCCTCA
Sequence 626
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACAAAAAA
AACATTTGGTATCAATAATTTGGTTGTGCATTCATTTATTCAGTCAACAAATATTTAGCT
GAGCACTGGCTAGCTGCCAGGTATTGCACTAAGGACCCAAAGATGGAAGAGATGATGTCC
CTGCCCTCATGGAGCTTGCAGTCGTGTTGAGCAGACTGTCAAACAGATTTAGGTAAGGCA
ATGTGACCAGTGCTATGATACAAACAGGATGCTACAAGAGTACCT
Sequence 627
GGGCGAATGGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTTCGAGCAGCGGAAG
AAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGA
GCCGAGCAACAGCCGCTTNAGAACTGAGAAGGAACCGCGAACGTCAGGCTAAGCTGGCGG
AAGGAGAAGATGAGGAAGGAAGAAGGAAGAGGCNCAATGAAGCCGGTGCAAGAGGATTGA
TGCCAAGAAAAAAGAAAGGGTGCTTGTCCAACATGGGNGGGGCCCTATTTTGGGCCGGCT
ACCCTNGGTTCAAGNGCAGTAACCAGTAAAGCCNTGGNTAAAGGCGGTCAAGACCGGGGG
GCCGGGTAGATTNAAAGGGTGCCGCATTCCCTTCTTTCCCGGAGCCGTTAANNAAAGCCC
TTCTGGGACCATTTGGACTTACCATTGGGGGGGGAAGGGAAAACCAGGCTTTCNCGGGGG
ANGAAAAAGCCCCCAAG
Sequence 628
GAACCGCCAGGAGCCAGAAGGCGAGCTTGGCGAGTTTTGTGNGCTTTTGACCTGCCCGGG
CGGCCGAGGTACTTGTTATCAACACATTTGTATCAGAGTTGCTTTTCTAATCTTGTTAAA
CTGCTTATTCTAGGTCTGTAATTTATTAACTGGCTACTGGGGAAATTTACCTNAATTTTT
CTGGATCTAATCTGNNATTTTTTCATTTNAACCTCCA
Sequence 629
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGNACCANNTNCTTNTTNG
AGNNNCNTACNAGNTGTACNNATCGCNGNNCNTAAAGANNTNCCCNNACCACNTCCTNTT
GNGCTTNTTTATTNGNATTGTTNGAACANTCTNNNNTNTGNGANTCNTTACATTGAATCA
TCTNGNCNANTTNATCCNANNCTTNACTGACTCANACTCNTTATGCTGAACTNNTNAATN
CAAAATCNCTATTGCTTTAGGACTCTGGGAAGCNGNTGATAAAAAGATAACACGAGCTAC
TGATATGGGCAGGANATGTTTNCTAANCAAATTGGAGAAATATAAACATGAAATGTGGCA
ATGATCC
Sequence 630
CCGCGGTGGCGGCCGAGGTGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCCAAAAT
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TATTNACCTTTNATAATTATTATTAGNGGGGGTATGGCTAANGAGTTCTGATTCACCCAC
GAAGGTTACATTTATGCTGAATACATTNGNAAATNCTCAGTTTTATNCNGNATGTATATG
ATGGCTACTCTAAAGGTTNGGATATATGTATNGNAATTAGAATTGTNGGCATGATNACAT
TTCATTNGNGCCAAAAATATTAAAAANG
Sequence 631
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACCAGTTGAAATTTCCAG
TAAAGCCTGCTGATCTTAAGAAGAGAATAGAATCTTTAATTGACCGGGACTACATGGAAA
GAGATAAAGAAAATCCAAACCAGTAGGCTGGAAGAGGATCTTGGGCGCCGCCAGTCTTTA
GCACCAGTTGGTGTAGGAGTTGAGACCTACTTCACAGTAGTTCTGTGGACAATCACAATG
GGAATCCAAGGAGGGTCTGTCCTGTTCGGGCTGCTGCTCGTCCTGGCTGTCTTCTGCCAT
TCAGGTCATAGCCTGCAGTGCTACAACTGTCCTAACCCAACTGCTGACTGCAAAACAGCC
GTCAATTGTTCATCTGATTTTGATGCCGTGTCTCATTACCAAAGCTGGGTTACAAGGTGT
ATAACAAGTGTTGGGNAGGTTTGAGCATTGCAATTTAACGACCGTCACAACCCGCTTGAG
GGAAAATGAGCTTAACCGTACCTTGCC

Table 1

Sequence 632
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAGG
ATCGATAAAAGAGGCAAAGTAAAAGGGACCCAAGAGATGAAGAATAATTACAATATCATG
GAAATCAGGACAGTGGCAGTTGGAATTGTGGCAATCAAAGGGGTGGAAAGTGAATTCTAT
CTTGCAATGAACAAGGAAGGAAAACTCTATGCAAAGAAAGAATGCAATGAAGATTGTAGC
TTCAAAGAACTAATTCTGGAAAACCATTACAACACATATGCATCAGCTAAATGGACACAC
AACGGAGGGGAAATGTTTGTTGCCTTAAATCAAAAGGGGGATTCCTGTAAGAGGAAAAAA
AAACGAAGAAAGAACAAAAAACAGCCCACTTTCTTCCTATGGCAATAACTTAATTGCTTA
TGGGATATAAAGAACCAGTTCCAGCAGGGAGATTTTTTTAAGTGGACTGNTTTCTTTCTT
CTCAAAATTTTCTTTCCTTT
Sequence 633
CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTCGGGACCGGGGCCGCTG
GGGTCTGGACGGGGGTCGCCATGATCCGCTTTATCCTCATCCAGAACCGGGCAGGCAAGA
CGCGCCTGGCCAAGTGGTACAATAAATTTTTTTTGGTCAAATTTAAAAAAAAAAAAAAAA
AAAAAAAAAAAGGAGGGGGGACCTGCCCG
Sequence 634
GGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGNTTTTTTTTTTTTTTTTT
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NNNAAATTANAANAAAAAANTNAAAANCCCCCCCCCCANNCCCGGGGGGGGGCCCCCCCC
CCAAAANNTNNNNTTCCCCATAAGAAANNNNNNAAAAAAAACCNCCCCCCNGGGGGGAAAA
AAAANGGAAAAAAAACNNNTTNTCNNGNGNGAAAAAAAAAGGGNTTANNNCCCCANAAAA
GGNCCNAAAAAAAAAAAAAAAACNACGGGGGGGGNAAAAAAAAAAATANANAAAAAGCTG
NNGGGGGGGNNCCCCCAAAAAGGNGGGCCANCNCCCCNNNNCNAAAAATTTGGGG
Sequence 635
CACTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAGTCGGTTAA
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AAGTAATATTCCATACAAAAAGATTCTTAGATTCCATTTTTTGCTTCATTATTGTTTGTG
GCTTGCTTTCTTTGAGCAATAAAGGGGTACCTGCCCGGGCGGCCGCTCTAGAACTAnnnn
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TCATGGGTATTAGCTGTTTCCTGTGTGAAAATTGT
Sequence 636
CTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGCTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTNCCAAANNNNAAAAAAAANCCCCCCNCCCNTTTTTNANTTTTTTNAAAAAATCCCG
GNCNTNNNAAAACAAANCGGAAGGNTNNAAANTNCCCCCTTTNACNTTTCCNAANAAAAA
AAAAAAAAANTTNCNNNNCCCCAAAAAAAAAAANCCCCCAAAAAAAAAAACCCCCCCGGG
GNNAGNCTNAAAAAAAAAAAAATGGGGGGCAAAAANANNNCCCCNAAAAAAAAAAAAAA
AAAACNCCCCCCCANAAAAAAAAAAAAANNGGGGNNATAAANNTTTTTTACNCCCAAAA
Sequence 637
ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAACACAGAT
GGGCACACTCTAGATATAGAACACGTTTCTTGCTGTGGTTGTGTGACAATGGCTAGAAT
TTTAGGAGGCTCTGGGACTGCACACTGTATATGCAATCCATCTCAGACTTTGGATGGGA
ATCCATTTCATCATCCAGCATGGCGAAACTTGGTTCATTCGCCCCAATGTGAGTCCTTCC
TGGGTAAAATTAAAGGCAGACCGGNTGGGTGCTAAGGATCCCTTGGTGTGGAGAGGCCAT
TTCCGTTGAGCAGCTGGACTGTGAAATCAATACCAAAGGGGATGGTGGGGTCTGGGCGTT
GGGGAATTCTTTGACAACTTTCTTGTCCTTCCTTAACCATGGGCTGTATCCCCNGGAGGG
TCTTTCCGGCTTGTGGTTCTTGGGCCTTGGGGGGGTC
Sequence 638
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCGCCGCTGGGCCTGCAGGTCTCT
GTCGAGCAGCGGACGCCGGTCTCTGTTCCGCAGGATGGGGTTTGTTAAAGTTGTTAAGAA
TAAGGCCTACTTTAAGAGATACCAAGTGAAATTTAGAAGACGACGAGAGGGTAAAACTGA
TTATTATGCTCGGAAACGCTTGGTGATACAAGATAAAAATAAATACAACACACACCCAAATA
CAGGATGATAGTTCGTGTGACAAACAGAGATATCATTTGTCAGATTGCTTATGCCCGTAT

Table 1

AGAGGGGGATATGATANGTTTGCGCAAGGGTNTGCACACAAACTGCCAAATNTGGGNGAA
AAGNTTGCCCTAACAANTTTTGCNGAANATTTTGTCCCTGNCCGGGNGGGCCNTTTTAAA
AAACTAGGGGGGCCCCCCCGGGGCNGGNGGNAATTTTNAANANAAANTTTTANNNGNCCC
CCCNCCCCCCTNGGGG
Sequence 639
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAAAAAAAAAAAAAACCTCGGCCG
CCCGGGCAGGTGTCTTGCGCCACCATGCCTGGCTAATTTTTGTATATTTAGTAAAGATGG
GTTTTCGCCATGTTGGCCAGGCTGGTCTCAAACTCCTGGCCTCAAGTGATGCACCTGCCT
CAGCCTTCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCCGGCCAAAGTCAGCTT
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GTAGTAAAAGTNTAGGAAAAGGAACTGTTTTCCTTAGAAGCGGACTGTGGAANGCCTTAT
GTAGANTGTCAAAGGGCANCANGAGCCCGNGTTTTTAAATGGCATTACTGTACCCTTCGG
CCGGTTCTAGANCTTTTTGNAANACCCCTTTACNTNCCCNAATTTTNATTNTNAAAGGCT
TTNTCGANTCCCTCNTANTTCGNGGGGGGGGGCC
Sequence 640
GGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCGAGAAAAGAGCTAGGGTAGGC
AACTAAAACTTACACAGTGCCAGTCTCAGGAGGTCAGTAGCTCACAGAACTCAACAGATA
AACTGGATTAAAACTTAAAAGTCTTCTTTCTATTTGAGCCCATAATGACTATTTTGAACA
TGGCTCTTTTGCTGCTGCCTATATATAAATTTTTTATTAATTTTCTTGTATTGGGAAGAT
CTTGAATACGCTCCAGGATGAGAAGAAAAAATACGCTGACACTGCTAAATCGGGTATATG
TTTTTGCAATAAAGAACACTGGTCAATATACAACTGAGGAAAAACTGAAACAGATGTGAG
TCCTAGAACCACAAGAGTTTGAATTTGCCCAGAAATGCTATTTTAAACACTCTATATGGT
TGGNCTGCTGTTTTTTTGNGGGAATAATGCATTCTTGGCATTCTTAAAA
Sequence 641
ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCTCAGGGGTGGTCTGT
GGAAGCCTTAAACTCTCCACACTCAGAGTCCTTTGTTTCCCCAGAGGCTGTTGCAGAACC
TCCTCAGCCAACGGCAGGTATGTCTCCCTGCAACACAGCTGTTGTACCTGCCCG
Sequence 642
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGNACAAGCTNTNT
TTTTTTNTTTTTTTTTTTTTTTTCGGAACCGTACCAGAAAATTTTATTAAAAAATTAAAA
CTATT
Sequence 643
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTCAACATGCTAGA
GGTCCAGCATTTCACAAATACGCCATGCAGTTACATGAGGACTGCTACAAATTTTGGAGC
AATGGCCATCAGCTCTGTGAGGAGAGGAGTTTAACTGATCAACACTGTGTGCACAAATTT
CACTCATTACCTAAATCAGGAGAAAAACCAGAGGCTGATAGAAATCCGCCTGTGCTATAT
CACAATAGCCGAGCTCGATCTACTGGTGCTTGCAACTGTGGAAGGAAACAAGCACCTCGA
GATGATCCCTTTGATATCAAAGCAGCCAATTATGACTTCTATCAGCTTCTGGAAGAAAAG
TGTTGTGGAAAATTGGATCATATCAATTTCCCAGTATTTGAACCAAGTACCTGCCCG
Sequence 644
TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGGTACTTCAGGGCTGT
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GTCCTTGGCCACGATGACTTCCTTCTTGAGGATCTTCATGGCCGTAAGTAGCGGCCTGTG
GCCTTCTCCTTCACCAGGATCACCTTGCCGAAAGTGCCCTTGCCCAGCAGCTTCAGGTAC
CACTCTTCCAACTCCTGAAGGAAGCTGGCTGTGCCCGTTGACTCTGACACCTTTCGAGTC
GCCAGTTTGCAAAGCCGCTCAACAAAGCCAGGAATGCTGAGAAGGGCCGCTTGATTGATT
TCAGCTGCAGAAGGCCCCAAACTCAAGCTCTTCTTCTGTTGAGCATTTTTGGCAAGAAGC
GTGTGCTTGTCATCATTCCCTGTATCCATCTCTGAAAATGGTGACAGCCAAGAATCCGGC
AGAAATTAGCGAGCTGCTTGCTGATCGAAATTG
Sequence 645
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCACGCAGCAACGCGGAG
GAAACGGGAGTGAACGGAGAGCGTAGTGACCATCATGAGCCTCCTCAACAAGCCCAAGAG
TGAGATGACCCCAGAGGAGCTGCAGAAGCGAGAGGAGGAGGAATTTAACACCGGTCCACT
CTCTGTGCTCACACAGTCAGTCAAGAACAATACCCAAGTGCTCATCAACTGCCGCAACAA
TAAGAAACTCCTGGGCCGCGTGAAGGCCTTCGATAGGCACTGCAACATGGTGCTGGAGAA

Table 1

CGTGAAGGAGATGTGGACTGAGGTACCTGCCCGGGCGGCCGAGGTACCTGCAGAAGGCCT
ACAGGGTGCCAGGCACTTCTTTAATGTGTTCTTTCTTTATGTGATTATTTGATTAATCTC
TGCCTCCCCCACTAGGACTGTAAGCTCCCTGAAGGCAAGAATCCTGTGCTTATGCTCAAT
ATTAGCTCNTCCCTTGGCACAGAGTAGGCACTTCAACAAATGCTCCCCA
Sequence 646
TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCATCTACAAAGA
CCTCTATTACATAAACACTGCTTCTTACAGGAAACAAACCTCTTCTGGGATCTCCTTTTG
TGAAAACCAGTTTGATGTGCTAAAAGTAAAAAGTCTATTTTCCAGTGTGGTCTTGTTCAG
AAGCAGCCAGATTTCCAATGTTGTTTTTCCCCTCCACTCAGAAACCCCTGCCCTTTCCCT
TCAGAAAACGATGGCAGGCATTCCTCTGAGTTTACAAGCAGAGACTCACTCCAACCCAAA
CTAGCTGGGAGTTCAGAACCATGGTGGAATAAAGAAATGTGCATCTGGTCTCTTCTGTTG
TTTTTATTTCATATCAGATTAAATTTCTTTACCATGTTGGCTAAGTCTAAATATTAGAGA
TGAGGGCTGTGCCTACTCCCTGGCCAGCTCTNCTGATAGCCTATGATGGGGTTCCAATGG
GGAAATGACTCTTTACTATTAAAAGACAAGGGAAAGGC
Sequence 647
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGGATTACAG
GCGTGAGCCACCATGCCTGGCCAGAAATCTATGTTTTCTTAGAACATGTGGAAGAAGGAA
AAAGACAAAAAAGGAAGTCTGGATTCTGAGGACCACGTCTCACCCAGGGTGACATCAGGA
ATGGGTGCTAGCCTCTGCAACACGACACCCAGTCTGAAGAAGCTCTATACAGGGTACCCT
NGGNCCGTTTTAGAAACTTAGGTGGGATCCCCCGGGCTTGCAGGAAATTCGAATATCAAA
GCTTAATCGATACCGTCGAACCTCGAGGGGGGGGCCCGGTANCCCAGCTTTTTGTTTCCC
TTTAGGG
Sequence 648
CCGCGGTGGCGGCCGAGGTGTAGGGTGTTATCCCTGTGACATTGTCTCTTTAGTTTGCTC
TTTCAAGAGATACTTACAGATGTTGAGATGGCTGCCCTGCATTTCCAGCTAATCTCTTCT
GCTCTAAATATTTAAAAACAGTTCTTCTCAAACATTTTCATTCAGATAGCTTTCTGAAAG
TTCCCTATCCCTCTTTACCATAATTTTTTAAATGTAGCCACATTGTAATAGTAAACTTCA
TATATAATGAGTGCTTCATATTTTTGTTATGGGAAAGCAATATATTATGCAGCCAGTCTG
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GAAATTTCATAAAATACAANGTTTTTAGATGTTTATGCTTTGCCTTTCTTTTTAAAGGNG
NTTTTCCTGCTNTGGAGNCNCTAACTCTGGAAAATTTAAAAATATGTAAACNAAAGGGGG
GTTT
Sequence 649
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCTATACATG
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AAGAAAAGGACCATGAAGTTGCACTCATTTTTCCTGGACCTCAGTCTATCTCAATAAAAG
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ACAAGAAAAACTTGCTTTTGGCGCCATCAAAAAGGGAAAGCCAGATACTTTCCTTTCTAC
AATTGAAGCCAT
Sequence 650
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CAGAGCGGTAGCGATCAATGCACAGGATGAAGACACTGAAAATGGACGCTGTGCTGGCCA
CATAGTCCATGGAAAGCCAAAAGAGGCAGAGAGGACGGCCCAGTGACCACTTGACCTGCC
CGGN
Sequence 651
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CAGAACCAGAGTCAGATATGGCAGGGATGTTAGAATTATACACCAAGTGGGATTTATCCC
AGGTATTCAAGGCTGGTTCAGCATTCATTCAAAAGTCAATTAAGGTAGTCCATCATCACA
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Table 1

TGATAAAGGAATATCTACCAAAACACCTATTAGCTAACATCACACTTGATGAAAAACT
Sequence 652
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ACAGGGTTTTACCGTGTTAGCCAGGATAGTCTCGATCTCCTGACCTCGTGAGCCGCCTGC
CTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGTGCCTGGCCACGTCCCTA
TTTTAGAAATGAGAGGAGTGACTGCACATAGGAAAAATGCCACTTTTAGCAATTCAAAGT
GGAAAAACTTCTTTTATATAAAAATTATCCCAACTCCCACCCCTTGGCTCTCAGTGTTGC
ATCTCCCACAGAGGTAAAGTTGTGCCATTTTCCCACGGCTTTAAACAAAGCAAAACAAAA
CCACCAATCCTAATAACCCC
Sequence 653
CCGCGGTGGCGGCCGCCCGGNCAGGTACAGAGTTACAGAGCATAATTTTAAACACTTAGT
TGCAGGTATATAAGTATGGTATGTTTCATGGACTGGAGACTTTGCCTGTTCATTTTTTAA
ATATTATTTTCAGGTCCTTTGCTTACCAAAGGAGGCCCAATTTCACTCAAATGTTTTGAG
AACTGTGTTTAAATAAACG
Sequence 654
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCGAGACT
GGGAAGAAAAAGAGGTTTACTTGGACTTACAGTTCCACATGGCTGGGGAGGCCTCAGAAT
CATGGCGGGAGGTGAAAGGCACTTCTTACATGGCAGCAAGAGAAAATGAGGAAGAAGCAA
AAGTGGAAACCCCTGATAAGCCATCAGATCTTGTGAAACTTATTCACTATCACAAGAATA
GCATGGGAAAGACTGGCCCCCATGATTCAATTACCTCCCCTTGGGTCTCTCCCACAACAC
GTGGGAATTCTGGTAGATACAATTTCAAGTTGAGATTTGGGTGGGGACATAGCCAAACCA
TATCATTCTACCCCTGGCCCCTTCAAATCTTATGTCCTNACTATTCAAAA
Sequence 655
CTACTATAGGGCGAATTTAGCTCCCCGCGGTGGCGGCCGAGGTACACGGAGCTTGAAGCC
GAAAAGGGTGAGGATCACTTCTACAGAGAAGGAGCCTCGGTCCACAAAGTCACCATTAAA
TATATAGGGGTTGGTCTCCGAGGGTAAACCGTTGAGCTCGAATATGTTGAGGAGGTCATA
GAACTGGCCATGGGTGTCCCCACATACTGTAATCTTCTCTGTCTCTTTGAGTGTGGTTTC
CACGAGCGTGCTCAGCTTGGAGAGGACCTCTTTGACCTGTACTGAGTTTTATTATCTCCA
ATAATAATGGTCTGGAACTCAGGAGGATCATAGTAAAACCTCCAGTGAAGGTTAAAATTC
AGGCCTGTTGATTTTTTCTTCGTTTTATGTTTTCCAGCAAGGATATCATAAGGACCAACT
AAT
Sequence 656
ACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGNCAAGGTACTCTCCCAC
TGGAACTCTGGGGCCCACTGAGGCACCATTATTGGGGATTTCAGGGTGGGCTGGGCACTG
CA
Sequence 657
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAACTGGAAACAACACTTGGTTAGTCTCTT
TTAAGTTACAAAAAGCCAATTGATGTTTCTTATTCTTTTTAAATTTTAAATATTTTGTTA
TAAATACTCACAGGATACCTTATTTCCCTAGCTATCATCTCCTGACTTAATGTTTTTTAA
ACCCACCAATATAAATTTAATTAAAGATATATGTTGTAAAAAAAGAAAAAAAAAAAAACC
TTGGCCGCCCGGGCAGGTACTCTTTTCCCACTCTGCGGTTCTGCCAAGCACCTTGCCTGG
GCACTTGTGTGTGTGCAAGACTCTACAGTGTGGTGTCTGCTGCTTTTTTTTTTTTCTTCT
TC
Sequence 658
AGGTTTTTTTTTTGTCTGAGTCCTCTGACGTCCTGCCCAAGNGAACAGCTGCGGCAGCCC
CTCCCAGCCTACCCCTNCTGCGCTGCCCCAGAGCCTGGGAAGGAGGCCGCTATGCANGGG
TANCACTTGNAACAAGGAGAACCCACCTTGAAGCTTATTNCCTANCCCNTNAGCCCACCT
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NGGGGGGGGGGGGNNACNCNTTGCCCCAGGGACGGGCCCNCNTTCTAAGAAACCTAAGAC
GNGAATC
Sequence 659
CACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTAACAGGAGGAAAAAAAATTTAATAATATATGTTTGCAC
AGGAGTTCCACGAAATATGAGACTCCAAGAAGGGTCAGATGATTGACACTCATACNCCAT

Table 1

CGTGAGCTATCGAAAAGAACGGCAGTTTGGGAGTTCTGCAGGGAGTTGACCACANAAGTG
GGAGAGTGAAGGGAAGAAGTGTGTCGTGAATAAAGCTTGGCTGGTTTTCANATAAAAGGT
CTTGCCGAGTGGCCAGGTGTGGTGGCTCACTCCTGTCACGTCCCANCACTTTGGGAGGCC
AAGGCGGGCGGCTCATGAGGTCAGGAGTTTCGAGACCAGCCTGGCCAACATAGTGAAACC
CCGTNTTTACTAAAAATGCAAAAAAT
Sequence 660
CNCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGTCTGG
GCTGGGGGGGACACTGTCCAAGGGAGTGGCCCCTATGAGTTTATATTTTAACCACTGCTT
CAAATCTCGATTTCACTTTTTTTATTTATCCAGTTATATCTACATATCTGTCATCTAAAT
AAATGGCTTTCAAACAAAGCAACTGGGTCATTAAAACCAGCTCAAAGGGGGTTTAAAAAA
AAAAAACCAGCCCATCCTTTGAGGCTGATTTTTCTTTTTTTTAAGTTCTATTTTAAAAGC
TATCAAACAGCGACATAGCCATACATCTGACTGCCTGACATGGACTCCTGCCCACTTGGG
G
Sequence 661
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NGGGGGGGG
Sequence 662
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AAAAAATGAGTAAAGTAAGTCTGAGAGAAGTTCATAGTCACTATATTACTCAATGACATT
TTTCTGCCTTCATTTCTAAGAGTTCATCTGATCCAAGGTCTGATCATCTTCTTGACAGAA
AAACTTGTTTTGACAGCACATTTGAAATGCCGAGTGTTTTGTTATGTCTAAGCAGCAGAG
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TGAACATTTGGACAANGNTACTTGGCCCGGGGCCGGCCGCCCGGGCAGGTACAGCAAGTT
TTCATGTCTTTTTTTAATAAATAGGATTTCTAGGAGTCAGTATATATTTAATACTCTTCT
TCCTTAAGAAATAAGAAGTTTAGGNCCAAGTGTTAAGCTTTATCCTTGACACTGGCCTTA
TCTCACATGGAGGGATTAAAAGGGCC
Sequence 663
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGAAGAGAGAAATTCA
AACAAAATATTGCTGTTCTTCAGTTTTGTTTGTGGAATTTGAAATTACTCAAATTTAAAA
TAAATTACTGGACTGTGGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
GACCNGCCCG
Sequence 664
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TACTCTAAATCCATTACAAATCTGCTTAGCTTCTAAATATTTCATCAATGAGGAAATCCC
AGCCCTACAACTTCGGAACAGTGAAATATTAGTCCAGGGATCCAGTGAGAGACACAGAAG
TGCTAGAAGCCAGTGCTCGTGAACTAAGGAGAAAAAGAACAGACAAGGGAACAGTCTGGA
CATGGCATCAGAGATCCACATGACAGGCCCAATGTGCCTCATTGAGAACACTAATGGGCG
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GGGGGTGGCAAATTGTGGGCCTCTACCGCACAGGCAAATCCTACCTGATGAACAAGCTGG
CTGGAAAGAAA
Sequence 665
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GGCAGTCGGTCTTNTCTGGGCAGGTTGTTGTTTCTNTCGGTAGTGTCCGGCGAGATGACC
TCCTGCTGCTGGGCCTGGATGGCCCCCAGGATTCCCCAGAGCAGGAGCACGGAGCAGGTG
CCCTGGAGCATCTTGGCAGCACCTGTGGCCCTGAAGTCCTGGTCCCGAGGAGGCACCT
Sequence 666
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTTTTTTTTTTTTTTTTTT
GGCAGTGAGGACTTTATTGGGGAGGGTGACTTTGGCTTCCAGAAAAGAGGGAAGGTGGGG
ACCTAGTAACAATAACCATTTATTCCAAGGAGGCCCTGGCCCTGAACCCGGGGTTCCCAC
AGGAATCAGGGAGGCACCTGAGTCCCCCAGGACCAGGGCATCCCAAGGCATCATGGCAGC
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GAGACCGCTGGAGGGCCACGGGGCTGGTGTGGGTGGGCCGTCGGAGGTCTGGCCCACTCC
GCACCAGTTCCTGGCAGCGTTCCACAAAGCTGCCCCCACCACGGCGCCGGGCCTTNAGCC
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Table 1

GAGGCTG
Sequence 667
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CCGCAATGCCCCCCAAGAAACAGGCTCAGGCCGGGGGCAGCAAAAAGGCGAAGCAAAAAA
AGAAGGAGAAGATTATCGAAGACAAAACTTTCGGTTTGAAGAATAAGAAAGGAGCAAAGC
AACAGAAGTTTATCAAGGCTGTCACACATCAAGTTAAATTTGGTCAACAAAATCCACGTC
AGGTAGCACAGAGTGAAGCTGAAAAGAAATTGAAGAAGGATGACAAGAAGAAAGAATTGC
AGGAGCTAAATGAGCTGTTCAAACCTTGTAGTTGCTGCTCAAAAAAT
Sequence 668
CCGCGGTGGCGGCCGAGGTACCCCTGTTGGTATCTAGGAAGTAACTAGCTTGCTTTTGAT
TTTACAGGCTCATAGGTGGAAGGGACTTGCCTTGTCTCAGATGAGACTTTGGACTGTGGA
TTTTTGCGTTAATGCTGAAAAGAGTTAAGACTTTGGGGGACTGTTAGGAAGGCATGATTG
GTTTTGAATAGTGAGGACATGAGATTTGGAGGGGCCAGGGGTAGAATGATATGGTTTGGC
TATGTCCCCACCCAAATCTCAACTTGAAATTGTATCTACCAGAATTCCCACGTGTTGTGG
GAGAGACCCAAGGGGAGGTAATTGAATCATGGGGGCCAGTCTTTCCCATGCTATTCTTGT
GATAGTGAATAAAGTTTCACAAGATCTGATGGCTTATCAGGGGGTTTCCACTTTTGCTTC
TTCCTC
Sequence 669
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTTGGGAATCTAAT
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CAAGCTTTTGAAATAAAATTTAAAAACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Sequence 670
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TTCCGCTTAATGTTTAAATTCAGTAACCGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTN
CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Sequence 671
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ATGTAACTGTACAAAATTAGTTGTAAAAAATAACATAATTTACCAGTAAACCCACTCATA
TAGAAATGTGCAAAGCCTTTTGATATAAAAAGGTTTGTACCTGCCCGGGCGGCCGCTCTA
GAACTAG
Sequence 672
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TGCAGGAAATCTAACCTGCCTATTCAGCCCATC
Sequence 673
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ATGAAAAAATGGAAACTGACATAAAAGTTAAAATAAAGGGATATTTCTAACTTTTAGACTG
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GNGTACCT
Sequence 674
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CATTTATATATCTAACCATTAATTTCACACTAAGGATGCTTCACCATATAATAAAAGGAG
CAAGATGGAAGCACTTTGAATTTTCTTTCATTGAGAATAACTGTTTTATGTAAGAATCTG
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Table 1

TCTTGNATTCTTTTTC
Sequence 675
AGGTACACTTCTGTCTTCAAACTGTATCTTCTTTGGATGGAATTAAGATGTAACTGTATA
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CAGGATTTAATATTTTCTAATTCTCTCTTTTAAAAAAAAGGATGCTGTTGGATTGGGAAA
AAAAAAGTCAAAAAAGAACCCAGATTCAATATATAAAAATGTCCCACAATAGGTCGACAA
TGGCAGTAAAAATAAGAGGAAAAAAGTAATCTTTCTGGAACATCATTTTTCAATAACATA
GAAACACTAAGTGCCAGGAAGATTCCTAT
Sequence 676
CCCTTTCGAGCGGNCGNCCGGGCAGGNACTTTTTTNTTTTTGTTAACTTTATTTTTAATT
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ATGAACAGGCCTCAGGTCTGTNTNTAACANGCTTATAATCTATGGTAAGAGGCAAGGNAT
TTAATCTCCTTTGCTTCTACGATNATGGCTCANATATGTTTGCTCTGCTCTAAGAAAAAT
GCATCAGAAGCACCTTAGGTTTGGCAGGNAGGGGCTCTGATGTTAACAGGATTGGGTAGA
GAAGCTCTTGATGCTTCTGGAA
Sequence 677
NCCCGGNNNNNNNNGGGGNNGGGGGNNNNNNNNNNNNNNGGGGGNNNNNNGGGGGNNNNN
NNNNNNCCCNNNNNNNNNNNNNNGGCCGAGGTACCATATCAACCAGAGCCAGNCCACCACC
ATTGGAAATAAAGNCCCAGCCAGTNAAGGTGGCCAAATTATTCCCACCATTAGGAAACAT
TTTTTCAGGCATTAATGGACCCAATGGAAAAATTTTCCTGGTTGGCC
Sequence 678
AGGTACTGCTTAAATGAACACAAGATGGTGTCAGGATTCCAAGTTTCTAGTTCTTTCTAG
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CCAATGAAAAGCTCTTGATACTCCTACATCATGAATATTATTGAGCTCTAAAACTTGAAC
TGGTCGTGTCAGGAGAACCTTTAACTGCTCATGGCAGTTCTTGTGGACTGAGAGGAAGTA
CCTGCCCG
Sequence 679
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Sequence 680
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GGCCTTTTAATTCCGGAATACCCGGTCCGGACCCTTCCGGAGGGGGGGGGGGGCCCCCGG
GGTAACCCCCAAGCCTTTTTTTGGTTTCCCCCTTTTTAAGTTGGAGGGGGTTTNA
Sequence 681
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TTCTCCCGCGTACCTGCCCG
Sequence 682
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TAATTTGGTGGTTACGTCATGCACCTGAAGTGGTAGTGAGCATTTATAGTAATAAAAA
Sequence 683
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CCTGAATCAGTAAATTTTTATTTTCATGAAAGGATGACAAAGAAATTCCATTTACACTATC
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ACAATGCACAAATTTGATGTTAGAGGATACTTTAATGTTTAGTTCTCATCTCAACAGTCA
CTGTTGCTAGTGTCTCTCATTCTCACTCTTCACTGTTACTTAAAGAACAAAGAACTAAAG
AAGCCAGAAAGAACTAGATCAAGCGATGAGACCAATTTTCAGGGTAAGGCATAATAA
Sequence 684
AGGTACTACTGGCACTGAGCCAATGTATGCTATCAAGGAAAGCTTTATCTGTCACTGAGC

Table 1

AAAAGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCCTACACACAAACTATGAG
GAGAGATCATTTCTTTTCTTTCTTTTATTTATTTATTTTTTTTGAGACAGGGTCCCACTC
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Sequence 685
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ACCTGCCCG
Sequence 686
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TTCTCTCATCATATACCCCAGGGATCCAATGGGAAATGTTTTCTTCCTGTCCTTTTAACT
TCAGGTTTTTTTTTTCGGGGGGTGGGGGTAGCGGTAGGGGGTTAGTGAGGATCTTCTAGCA
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GGCTCCTNCTGACACTAGNCCAGCNGGCAAAAAGGNTACTGAACT
Sequence 687
AACCCACCGCGGNGGCGGCCGCCCGGGCAGGNACTNCTTGCNNGGGATTAAAAACCCGAC
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Sequence 688
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TGAGGAAGGCTACAAAATGTGTCTACCTGTATTCTGTGAGGAGAACGTGTTCCCTGGTTT
TAGATACTGTGAAGATGGATCAGGAGAGAGTTTATCTAGACTGTTGGGGAAAGGTGTTGC
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Sequence 689
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TTTTGCTCTTAGTGAGTAGTAGGTACCTGCCCG
Sequence 690
AGGTACCACTTGTGATGTGTTTAATAAATTCTGTGTGGTTTTTACATAGCCCTGAGAGGT
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GTCAGGAAATCAGGTACCTGCCCG
Sequence 691
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Sequence 692
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GTATGGACAGAGTGATGAGTACCTGCCCG
Sequence 693
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GCTGGTGGACCACTGGAAAATATGGAATATTTCAGTACCTnnnnnnnnnnnnnnnnnnnn
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ATACGAGCCGNGAGCA
Sequence 694
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCAGCGGCCGCCCGGGCAGGTACAACAAAAG
TTCATCCTAGTAATTCTTAAAGCTCTTCAATTCCTATAGAGTTTAGCCTTTGTCAATAGC
CAAAATATGTGCTTGAAAAATAACTTCTTTGAGTTTCAAAGCAAATGAAAACATAAAACA

Table 1

AGCAAAAAAGGCTTTTTTGTTGGTGNTTTTCTCTGCATATCTAGGGTTTGTTTCTTCATT
CATAAATACGGTTTTCAAAAAGCATTGCCTCAGCCAAAATTATTGCCCTTTTTAAAAATG
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Sequence 695
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ACTTCAAAATGTGACACATCGGGCTGCAGTGAGCTGAGATCGTGCCACTGTACCTGCCCG
GGCGGCCG
Sequence 696
CCGCGGTGGCGGCCGAGGTACTGAACATGTTCTAAACTCAGATAGTGATGACTGCACAAC
TCTGCGAATACACAAAAAAACATCCTCGGAGGGAGTCTGAAGGTATGTAAATTACATCTC
AGTAAAGCTGAAAAACTGCTTTGGCTAAAGTGGCTATCCCTCCATGGTGCTGGGACCTGC
CCG
Sequence 697
CCGGGCAGGTACAGTGAACACGCCTGTAAAACTATCACTCATATGAAAGAGAGGACAATA
TCGGCGCAGAATACATACTAGCAGATACTGCTTTTTTACTGTGATTTGGAAACTTTTGGT
ATTCAAGTAACCACTAAGGAATATAACTCTAACATGGACAAGGCTTAGATGCATCATGAA
AGTCTGTCATGGGAAAGGTCTGTGGACAGAGGATGTACCT
Sequence 698
AGGTACAAGGCAGCAGAAGCAACAAAGGCTGTGGCCAGCAACGAAGGCAGAGTCCCCGGT
AGGCGGAGGTCCCCGTGCACAGTGTGGTGCAGCAGTGAACCCAAGATTTTCCTTCACAGG
GCAGGGGAACTATTTCCTAATAAGCATTGGCATTCAGGCCACAAGGGCAGCCATTACTCA
GCACTGCACTGACCTTGGGAATTTGCTGGGCAAGGAAAATGACGTGGCCCTCATCATCGA
TGGCCACACCCTGAAGTACCTGCCCG
Sequence 699
CCGGGCAGGTACTCTAACCTGGGCGACAGAGTGGGACCCTGTCTCAAAAAAAATAAATAA
ATAAAAGAAAGAAAAGAAATGATCTCTCCTCATAGTTTGTGTGTAGGAAAAGAAGTGATA
AAACTGACCTAATTGAACTTCACCTTTTGCTCAGTGACAGATAAAGCTTTCCTTGATAGC
ATACATTGGCTCAGTGCCAGCAGTACCT
Sequence 700
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTGAAAAGCCTAGTG
CACTCCAGAAGGCAGGTGGAAGGTGTTGTTTGAAGTGAACCCTATTTTATTTTTCTCAAG
AAATTCTTGAGCCGATTCTGTGACATGAACATCTAAACAGAGTAACCAGATTCCAACTGC
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AACTTCATTTCCAGGCCAGTTTAGCATTCCCATTTTTTACCCTGATGAGTCCCATTTTAA
TGAGCAATTTGCTTTATCCAGTAGTGCATTAGTGAAGTGTTTCCTGATTTTATGCGGCAA
GTGTTTAT
Sequence 701
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCTTCTAAAAATGAGTGAACATGGTGAC
TTACCAAAGTGTGATTTGAGTTTCCTGGACCCTCTGCATGAAATGTGAACATGAGCTATG
CTGAGATCACAAGTTAAATTTACTTTTGAAACCAGGTATACAGTTGATGGATGTCAAATG
ATAAACGTATGCATAGTGATGAAACGGTCTTTTAAGTTTTAGGTGTGCATGTTTGCTTTT
TTCCTGAACCTGATTCAAATAGTTGTAATTTGTACCTGCCCG
Sequence 702
AGGTACCTGCAATGAAGGAGAGGAGAGGACAGGGAGCCAGATTTCCAAGGACGAGAGGAT
GGATGCGGAGCAGGTTTTCTGTAGCATGTGGAGGAGGGTAGGAGGTGGCATGTGATGACC
TCGTGCTCCAAGAATAGTGCTCAGTACCTGCCCGGGCGGCCG
Sequence 703
CCGGGCAGGTACATCCTACTCCAAACAGCCTAACAAAGAGTCAATCAAAGGAGTTCTTTG
ACCTGCTACTTGATTTGAGAGTTCCTAAGCAGTTTTCGTGTGTGGTTCTAGAATACCCAG
AATGCTGATTTTGGTAGGAGGCTGTGGATATGTACCT
Sequence 704
GCGGTGGCAGGCGAGGTACGTGACAAATGTCATCTAATAACCCTGGGAGGGCTGGTCCA
CCAGGCTGTCCCAGTATCCACCACCCTCTTCCTATCCTCAGGGTGCAAAGGCCAATTCAC
TCCCTCTCCCGTTTCCTTTCATTCTTTCAGTGTTGCTGTATTATGTAGTACCTGCCCG

Table 1

Sequence 705
GCTNATTGGAGCCTCCACCGCGGTGGCGGCCGAGGTACGATGCAAACCAGCAAGCCAGGA
AGCACCTCCTTCCCGTCACCACAGCAGGCCTGAGCAGCAAGGAGCGTCACCGGAGCCCAC
TGGAGAAGCCCCACAACGGNCTNCTCTTCCCCCAGCACCGGGGACTATCAGTACCTGCCC
G
Sequence 706
CCGGGCAGGTACCCTCCAGGCCCTGTGTATTATTAAGATCTTTTAGTAGCGAGTTGCTCT
TTCTCTGGGAAATCGGCTGTTAAAGTCAGAGGGAGCTCTTAATAGTTTGCATGGTATTTG
ATTAAATGGAACAGTTGGATCAGTACCT
Sequence 707
ATTGGAGCCTCCACCGCGGTGGCGGCCGCCCGGGCAGGACGCGCTCTCCTTCGAAGTCCG
GAGGAGTTTCCTGGATTTGGCACTCTCGTGCAAAGCGGTCATATGCTGCAGAGTGTCTCC
TCTGCAGAAGTCTGAGATAGTGGATGTGGTGAAGAAGCNGGGTGAAGGCCATCACCCTCG
CCATCGGGAGACGGNGCCAACGATT
Sequence 708
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CTATGATACTTAAATGTTTTAGCTGTGAGCAAAATAATATGCATTCTCAAAGAGAGTATC
TTCAGACTCCAGTGGCCGAGAATCTAGAGTTAGCAATGGAAAAATTAGTCTCGGGCTTCT
GTTTCTGCCCACAGTTTTCAAATTAAGAACAATGTGTTTGCACTTAATGAAACAACCTCT
ACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCCTGGCGGTCCCCTGTAAG
TACCTGCCCG
Sequence 709
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AGATAAGCAGAGTAGATCTGTTATTTCCAAATTAAAGGTGATTAAGATATATGGAGAGAG
AACATGGCATGTGAGGTTTATAGGGCTAGAAACTGCAGAACCATGTAGAACCCACATTTA
ACTACAGTACCTGCCCGGGCGGCCGCTCGA
Sequence 710
AGGTACATTTGAGATGGTCTCACGTGAGACATCAATACGGCTTGCTGGGGGGCACAGGTT
TAGGGCAGATGAAACTCACAGGAGGGCGGGTCTGGGTTAACTGAGCTAAAGAGCTTTTCA
AGCCACTAGAGCAACANAGCTGCCCACAGTTGAGTCAGATTAACCTGGGAAGCCTCCAAG
TGAATTGGNTACCAGCACCACATTCACAGATCTCAAAATTTATTGAAACTGATTGAGAGG
NTGGATTTTGATAACTAAGA
Sequence 711
ACCCCCTATAGGGCGAATNNTGGNAAAACCGCCCCGGCGGCCGAGGNACCCAAACCTNTN
CATGGNCAAGAGAAAACCNTTTGTGAGGGAAANNTNTTAAAANNANGACATGAAAATGGA
GACGGANATTAAGAGAAACAAAAAGACTCNNCNAGACCAGCATGGACAGNACCTGCCCGG
GCGGCGT
Sequence 712
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TAGATATTCCTGCCTGGCCTGCTGCCATTCTCCAAGAAGGCAAGTAGGCACAATAAATTA
GACTGGACGGTAACAGTTCACATGTTGCCCTTTAAGAAGTGTTGATATTTTATGGCAAGA
GGTTTGTTTGTACCTGCCC
Sequence 713
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GGCAACCCAGAAGGAGCTTTCAAACAAGCCTAGATATTCCTGCCTGGCCTGCTGCCATTC
TCCAAGAAGGCAAGTAGGCACAATAAATAAGAACTGGACGGTAACAGTTCACATGTTGCC
CTTTAAGAAGTGTTGATATTTTATGGCAAGAGGTTTGTTTGTACCTGCCCG
Sequence 714
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CTGAAAAAGAATTCCCACTCCTAAAATAGAGGTCTGTGAGCAACAGATGTGGTAAATGAC
CCTTGTTCAACTGAACCAAGAATATATTGTGATCTGTATGAGGCACAATTCAGAAGAGAG
GGGAGGTGGCTACAGCACAGCCTCAGTGTTGAGTTTGGTTGTGGGGTTTAAACATATTTA
TTTATTTCATAAAGTTTCTCTCATAAGGCACAATGCAAATGAGCTTTTAATTAATCAATC
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Table 1

TCTAAAGAACGTGTGTCGAAAAGCATGTCAGTGAGTAGCCATAACCTTCAGAGGGGATCT
ATGCCTGGCTCTAAAACTAGNGGATCCCCCCGGGCTGNGANGAATTCGATATCAAAGCTT
ATCGATCCCNCGCCTCGGNGGGGGGGNCCGGGNCCCANCTTTTGGTCCCTTTAAGG
Sequence 715
CGCCCGGGCAGGTACATACCCACATACATACCCACACATAAACATATAAATAATATTTTT
TAAAGAACCAAGGACAATAAATTTTCCTGATGAGCCAACATTTTAAGGAAAAAAATAAGA
AAATTGTATCTTTGTGACCTGACATAAATACCCAAGGATAACTGCCATCCAGCCTTCTCA
CGGTGTGACTGAGCACAGTGGGTCCTCCCTTAGCTGAATTCTAAGAGTGAAGAATAGTTT
ATTGTTTGAAGCAGTGAGGAGAGCACTAGGGATATATTTCATAATACATGAAGAAAGGAG
GGAAGACTAATGCAAGTTTGTACCT
Sequence 716
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CAACATTTTAAGGAAAAAAATAAGAAAATTGTATCTTTGTGACCTGACATAAATCCCAAG
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ATTTCATAATACATGAAGAAAGGAGGG
Sequence 717
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TTTCTTAGTTGAATCAAGATTGGTATGAGTTGTAATTGTGGAGCTGGGTGATAGATCATG
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AAACACTATAATTTTATCACAGTACCT
Sequence 718
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CAGATTGTNAGCAGTCACACTGGGAACATAAGCTGGGCACTCCTAGTTCATGATCCTAAC
CACTGTGCATTAATGCGGCACAGACATGAAATACTGATGAGACTATTCTTGAAAAAAAAT
CACTCAAATAATCAAGTGTGTGTTAATTGGATTTGACTTTTTTCAGTACTCCGTCATACA
GCAAAGGTAAATCAATGGGTTGTT
Sequence 719
GGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTTGGTTTCTCAAACAACTCACTGATTTAT
GGTCTTGAGACCATAAACTCATTTTCCTTATATGAATGACATTTCCACATCCACAACANT
ACCACCAAATATATGTATCTAGTTCTTACTAACTGCAAATCCTCAAAGTGAACTGCGTGC
ATTTTAATGTTGCGTAGTTTGCTGATTTATGATTACCCTTAATGTACCT
Sequence 720
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTTGGTTTCTCAGAC
AACTCACTGATTTATGGTCTTGAGACCATAAACTCATTTTCCTTATATGAATGACATTTC
CACATCCACAACAATACCACCAAATATATGTATCTAGTTCTTACTAACTGCAAATCCTCA
AAGTGAACTGCGTGCATTTTAATGTTGCGTAGTTTGCTGATTTATGATTTCCCTTAATGT
ACCT
Sequence 721
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nnTCGGCAATCAGTGGTAGTGGCGGTGGCACACnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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TCAATNTTTATCCACCCCCCCCCCCCCCGGGG
Sequence 722
CCGCGGTGGCGGCCGAGGTACCCTTGGTTTCTCAGACAACTCACTGATTTATGGTCTTGA
GACCATAAACTCATTTTCCTTATATGAATGACATTTCCACATCCACAACAATACCACCAA
ATATATGTATCTAGTTCTTACTAACTGCAAATCCTCAAAGTGAACTGCGTGCATTTTAAT
GTNGCGTAGTTTACTGATTTATGATTTCCCTTAATGTA
Sequence 723
TGTAGCTCNCCGCGGTGGCAGCGGCCGCCCGGGCAGGTACTCTTGTTTAACCATCAGAGG

Table 1

TGATCCCATCACCTTCACAGCCCCAGCCTCTGCTCCAGTCCCTCCCCAGCGAAAAGGGCC
GCCCATGCCATCCTGCTTGCTTGGTGATTTGCTTTGTGGTCATGGACTCAGTTGGACATC
ATTATTTTATTAACCGTGTGGTAGGTTTTTAACTCAGTTATCCTGGATATCCAAAGGTTT
GTGGTCCATCTTTAGGCTTCCGTTTGTTCTTTGGTACCTCGGCnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnNGAATTNTNATATCAAAGCTTATTCNATACCGTCNAACCTTTN
ANGGGGGGGG
Sequence 724
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAGTTAGAGCTTCAATCTCC
AGTGTGATGGTATTAGGGTTAGATCTTCAATCTCCAGTGTGATGGTATCAGGGTTAGAGC
TTCAGCCTCCAGTGTGATGGTATCAGGGTTAGAGCTTCAGCCTCCAGTGTGATGGTATCG
GGGTTAGATCTTCAATCCCCAGTGGTGGTGGTTAGAGCTTCAATCTCCAGTGTGATGGTA
TTGGGGTTAGAGCTTCAATCTCCAGTCTGATGGTGTTTCGGGATGGGGCTTTTAAAGATG
TAATTAGGGTTTAAAGATCATAAGGGGACCTGGTCTGATGGGGATTAAGTAGGCTTATAT
TGAAAGAAGACACAAGAGGG
Sequence 725
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AGAGCTGCTTTTTGTAACTTACAATAGTGTTTCCCAGAGTGCATNCCATGAAAATATTAG
TTCTTTCAACATGCTGAACAATGAAAGAATCCATGGTCAAATCCTGAGAACNTATTGTCC
CTNTTTTAGAGATTCATAAGGTACCTGCCCG
Sequence 726
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CAAAGCTCAGGGATAAGTCTAAACAGAAAGGCATTTATACAGCAACAAGAAAGTTACTGG
GGGCTGGGGATGAGGGAGGGCTGGGGTAGGAGGATACTAAAATATTTTCTGAGGTGCCCA
ACTGCTTGTCTTAGAAGAGGCTAAACTGAGCCAAGCGTCTCTGTTTGTCTCCTCCACCCC
CTCCTCTACAGCTTTACAATGTTCTCTAGCAGAAGCAAAAACAGGGTCACTGCCATCATA
GATAAAAGGATG
Sequence 727
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CCTTTTTAAAAAAAATTCTTTCTTTTCTGTGTTCTAAGCAACTGGAAACTAAAAACTGCC
CTGGCCTATCATAAGGGAGAAGATGGGAGTCTTTTGCTGTCCATCTTGAATGTAATTCAC
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GGTAATTTAATGCTTAAACAACTGTTTCATTTGTGTACCTGCCCGGGC
Sequence 728
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CCCTTCCTTCCAGAAGCCTCCACTCGCTTTNTGCCAAGGAGCTTCTGCGGCGCCCTGCAC
GCACCTTTACAGATGCAGGTGGCTGTTTCCTGTGTCAGACTGCAAGCTCCCCCCGCGTAC
CTGCCCGGGCGGC
Sequence 729
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TCCTTCCTGTGTGGAATCGCCTCAGTAGCAGGCCTCTTTGCAGGGACCCTGCTTCCCAAC
TGGAGAAAATTACGACTGACCATTCAACAGAAACGAGAAGAACCTGACTGTTTACACAGG
CCTGTGGGTGAAATGTGCCCGGTATGACGGGAGCAGTGACTGCCTGATGTACCTGCCCG
Sequence 730
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ATTTAATCAAATACCATGCAAACTATTAAGAGCTCCCTCTGACTTTAACAGCCGATTTCC
CAGAGAAAGGGCAACTCGCTACTAAAAGATCTTAATAATACACAGGGCCTGGAGAGTACC
TGCCCG
Sequence 731
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CACTTTAGAATACCTCCATGCTCATGTGGACACCTAGGAACAAATGAATATTTCTATTCT

Table 1

TCTCCCAGAATTTTAAAACATTAAACATGTTAAACTGTATTTTTGTTTACCATAAAGCCT
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TCAAAAGCCATCTGCTTCNCAGCAATTCATAATCCATACCCCTTTTCCTTTTTGGCCACT
TATTCACCAAGAATCTNCANTAGTTCCCTCGGGCCGCTNTANAAACTNANTGGGATCCCC
CGG
Sequence 732
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGA
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TGACCTTTTTGAAGATTATTCCAATGCTCTTCGTCCAGTGGAAGATACAGATAAAGTCCT
GAATGTGACCCTGCAGATTACGCTCTCTCAGATTAAGGATATGGATGAAAGAAACCAAAT
TCTGACTGCTTATTTGTGGATCCGCCAAATCTGGCACGATGCCTATCTCACGTGGGACCG
AGATCAGTACCT
Sequence 733
AGGTACCCAAAGAAGTAAACTTAGCAACCTCATAATTCTAGGCACCTCTCTCAGGTAATC
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CATGGATGGTGTTCTGCAAATGTTATCTCAGATAGTCTCTGGACAGGACCTGCGAGCAGA
CTTGCTCAGGGTCTAGAAAGTCTTCCCTGGACAAATTCCAGATCTCTAGCTAGCTAAGAC
AACTGCAGCCATTTTCCTGTACCTGCCCG
Sequence 734
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTATACA
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AACTGATAATCTACAGATTGCAGTGCATTTATGATTTCAATGGAATTAATCTAATTCTCC
ACACTTAATTGTGAGAATAGCTATAAACAGATTGTCAAGAGGAGCCTTTTAGTGCCAATG
CTTTACTTGAGGAAAAAAATTTCTTTTGGGCAAACCCATCTTTATTCATTGCAGAATACA
ACGATTCTCAAAAGTAGCTTAACAACCCCAACTCCGCTGGGTAAGTGTGGCGGCACACGC
CTGTAATCCCAGCTACTTGGGAGGCTGAAGAGGGAAGGCTGCTTGGGGCCAGGGAGTTTG
AAACCAGCCTAGACAACATAACAAGAGTCTGTCGCGAAAAA
Sequence 735
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GATCTCTCCTCATAGTTTGTGTGTAGGAAAAGAAGTGATAAAACTGACCTAATTGAACTT
CACCTTTTGCTCAGTGACAGATAAAGCTTTCCTTGATAGCATACATTGGCTCAGTGCCAG
TAGTACCT
Sequence 736
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACCATCCTGTCATAAT
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TTAAAACTGTAAAATAGTTTATACATTTGAGCATTATTATTATAAGCTTTTGTTTCTTAC
CTCAGAAGAATATATTTTCAAATGATAGACTTCTGGGACTTTTGGTACCT
Sequence 737
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Sequence 738
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AACACAAAGGCAAGTCTTCATATCAGCACTTAGTCTTGATTCAAGTAGCTGACTACTGTA
CCTGCCCG
Sequence 739
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GACCCAGCTGAATTGGAAAATGTGGGAAGGGGATGGGGAAGAGGCTGCTCCACCTGAGAT
CTGGCTCCAGGACTTACAGCAAGGGGAACTTGGGCAAGTTACAGACTGCTATGCCTCAGT

Table 1

TTCTTTTAGCAAAACAGAATCATCCCATAAACTATAAGGTCGATGGTATCAGCGGGTCCC
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AAGCCAAAACACAACAGCAGGACAAGAATATTTTCAAGGCAGTCTCTAAAGCAGAGGAGA
AACTGTTGAGGGAACCTAGAAAGTAAAAGGAGATCTGGCTTGCTGGGCTCCATTTGAAC
Sequence 740
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTT
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Sequence 741
CCCGCCGGCAGGTACGCCCTAGCTCCAGCTTCCNTTGGGAGACTGTGCATCTCCTGGCTN
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CCCCAGCCTAAGCCCTCTCTATTTTAAATTCTCAAGTGGATTATGTTCCTGATTAGTCCC
TGACTGATATACCACTCTCCTCATGATCTCTGATTAGTTTTCCTGTTAGGTTGTTGCAGT
AAAAAAAAAAAAAAAAAAAAANNGGTCCCTCGGCCGCTCTAGAACTAAGTGGATCCCCC
NGGG
Sequence 742
AATANCCCGAATTGGAGCTTTNCGCGGTGGCGGCCGAGGTACCTTCATGCTCTAAATCAT
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TCCCAGGGCCTGCCCG
Sequence 743
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AGCTCCTAGAATACAGCCTGGCATGTTGTAGGTGCTCAATAAAATCCTTGTTGAATGACT
GACTGAATGAAACCTGGCCAAGGTCTAAGCATCACTTCAATGGGATTCACCTGGAAATTG
GCACCCCCCTCCCCCGCGTACCT
Sequence 744
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ATGTTGTAGGTGCTCAATAAAATCCTTGTTGAATGACTGCTGAATGGAAAACCTGGCCAA
GGTCTAAGCATCACTTCAATGGATTCACCTGGAAATTGGCACCCCCCTCCCCCGCGTACC
T
Sequence 745
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACCTGATTACCTGAAA
CAGCAGCNNAGNCATGCAGAGGAGGATCAGCAGCAAGAAGGGGTGAGCCATGAGTTCCTG
AAGCCAGGAGGGCTCCATTCTTCTCAGAGGTCCTGAGCTCTGGAAAGCCTGAGAGAACTC
CCCGCGTCCT
Sequence 746
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCCACACTCTTCCTGACAA
AGCAGNTGAGGGACTTTCTCTGCCAAAATGAGAGAGTAAACTTAAAAAGAAGACAAGGTG
GGATATTGCAAACAAGAGATACAACACAGGAGGGAGCCGAAGAGAATCCCTTGATTTGAG
GTGAAGCAGCTGTACCTGCCCG
Sequence 747
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTAGGCTCTCCAGGGAATGC
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Table 1

ATTAGGCGCTGTTTGTTCCACTCTTTATCTTTTTTCCTCCAGAACTGAGGCTAGTTGATC
TTCCCTTGAAAGTTCAGTCCCCCTGAGTAGCTAAGCCCAATCCTGTCTGTACCTGCCCG
Sequence 748
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TGTCTCAAAAAAAATAAATAAATAAAAGAAAGAAAAGAAATGATCTCTCCTCATAGTTTG
TGTGTAGGAAAAGAAGTGATAAAACTGACCTAATTGAACTTCACCTTTTGCTCAGTGACA
GATAAAGCTTTCCTTGATAGCATACATTGGCTCAGTGCCAGTAGTACCTGCCCG
Sequence 749
ANGGCGAATTGGAGCTTNCCGCGGTGGCGGCNCGCCCGGGCAGGTACAGTAGTCAGCTAC
TTGGATATCAAGACTAAGTGCTGATATGAATACTTGCCTTTGTGTTTTGTTATGAAACAC
GCAAGCATAAAGCAGGACTCAAGCACAAGGCTGACTGTTCTACTTTGAATAACAGTTCCT
TGCAGTCTCCTCCACATGGGTGGTACCT
Sequence 750
GCTNCCCGCGGTGGCGGCCGCCCGGGCNGGTACCCACCGTTCATCTGTAACATGGCTGTA
ATAATGGCACCTACTCGTTGCTGTTAGCATTGAAGGAGCCAACGTATGCAAGCCAATCAC
TTAACAAATGTCCATTGTTCTGCTTGTCATTTCTTTGCTTATACTTCCTGACAACAAGCA
GAAACCTTAGAAGAGTGGTCTGTTCACTTTAGGGAAGGCTAAGTCAGCATTAGGTGTCTT
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ATAGCTCTCTGGCTAAGTTTCTCA
Sequence 751
GCGGTGGCTTTCGCCCGGGCAGGTACTCGGGCCTAGAAATTATTTAANNTGGCGACTGAT
ACGTCTCATGGTGAACTCGTTTNTNCTAAGGCACTCCCACTTATAGTAGGAGCTCAGCTG
ATCCACGCGGACAAGTTAGGTGAGGAGGGGCTGACATATTCTTGANTCACTCTTGGATCA
ATCCCTGACTTCAGGCCCTGCTGGGTCCTTCTTGGTACCT
Sequence 752
CCGCGGTGGCGGCCCGAGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAAT
GCAGCTTTTGAGGGAGGTCAGCATCATTGGTCTCAGCTACTAGAGTTGAAGATGATTCAG
CCACTTTTATTCCAGCCACTCCATTTCTAGCATACACTAAGAGAAGTGTATATTTAAAGA
GGCCATTTTCCTGCAGGATGTTTATAAATAGTTCCTGGCCCCCGCGTACCTGCCCGGGCG
GCCGCTCG
Sequence 753
GGCGAATTGGAGNTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAAATACTTAAGAAA
TACTTTTCACAAGTGNCAATAGATTTATGTGTTATGGACTCATTGCAGANGGCTGAGGAG
CAGTAAAGGAGGGAAGGTTCAAGAAAGCCTTCAAAAAGGAAATAACACTTTACCAGAGCC
CTGCTCACCAGTAAGAGCAAAAATTGTGCAACTTTGATATTTAAGAAATGGAGGGTTACT
GCTAGTCGTAGNGGTGGGTGAAGTAATTCTATATGACTAAAGCATCAAACTCTAATAAGA
GCATTATAAAAAGAGGCTAGAAAATTGGACAGGCAACATTCAACATATCTTATAATTAAA
GATTTGGTAGTNTTATGTTAGAGGTGATAGACACATAGGAGAGTTTTTTAAATGTGGGAA
GTAAAATTGGTCAAGACTTGACTTTTTAGAACAGTAATAAAGGAGTGCCAGNTATTTTTT
GGGAATTCATTTATGGTGACCCTTTTAA
Sequence 754
CCGCGGTGGCGGCCCGCCCGGGCAGGTACCACAGGGAAGAATACCTCAGTTATTCACCTT
TTGTTTAAATGTTTTGGAATAACACAGACACAGCAATTATGAAGTTTTTCTCTGCTCTAC
TTAGATGAACAGATTCTGTTAACTAAAATGAAGGCAAATGAATGAAGAGAGTTCTATGTT
ATATATCTGAGAGCAGGGTCTCTATTTTTGATACACTGACCATTGTTTCTCTGTAAAAAA
TACAATTAATACTTCATCCTCTCCGTAACTCAGTTTTAGCTGAATACTATTTTTTAGTCC
ATTGTATATGGCAGACTTTATGTTAGGCACGAGGGACATAAAGATTCATTCATTCCTTCA
CGCCAGTAAAATANTTGAGTTGGGAATCTTCCTATGTTCCGAGGCACTGAGTTCAAGTGC
TGAAGGTTTAACAATGAGCAACACAGACACAGTTTTGCCTTNCTGCAGGGTACCTCGGCC
CGCTCTAGAACTAGTGGGATC
Sequence 755
CGAGGTACTGTAATTTTGGGGAGCAAGCTAACACATTTGACTTGCGGCTGAGCTCTTAAC
TAAGCAATACCTCAGTATGCTCCTTCGGGAAAAATTAAAGGTTCAGTAGTCAAATACTTT
TGGAAATGCTGGGCCATTATGCACAGAGAAGGCCGCAGTAAGGAACATTTTAAATTTGAA
CAGAGAACATCCAAATCTAATTCATCTTAGAATCCATTTGCTATGGAATGTACCTGCCCG

Table 1

Sequence 756
GTAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGCAATGACGTGGGGAGAGAGCGC
NGAGGAAGGGAGAGATCCAGAAAGGTAGATTCTTCTGTGTAGGTGAGTGGATGAGATAAT
GAAGCAAGTTAATTTGGGCTCTGCTGACTTATTTATCTGTCCCGGGCACTTTTNTCTGTA
CCTGCCCG
Sequence 757
CGAGGTACTGCGGGCNCTCTTGATTCCAGTCTACTGGACTGCTTGTTGCTTTGGGTATTT
GAGTATTTATGTGTTTCTTTTGGCTCCTGTTTGCATGGTCACTGGCTGTCATAGGGAATG
GTGATCGGCTTTTCCAGTTGCTCAGGNCACAAAAGAGGTTGGCTGGTGTCATGGACAGCA
CATGGGATTTGGAGTTAGAAGGTCTCAAGTTAAAAACCCTCAGGCCCCTGCATTCTAGCT
GGGGGACCCTCGGGCAGGTTGCTTGAACCTCTCACCTTGACTGGTTTGTTGAACTTGCAG
AGTGCTAGCAGCACCTGCCCCCAGCGTGGGGGAGTGGTTTTGCAGATTAAAAGTGNTGTG
AATGCACTTCCTCGATGGAGGGCCTCTANCACCATGGTTTCGTCATCCTGTATCTGTCAC
TCACCCTGTANGTNAAGGGGTTTTTCACATTTGNNGCATCAAAAAAGACCCCTA
Sequence 758
GCGGCCGAGGTACATGGTGGCTACCACATCCTGNTGTTTGTCTATACTGGGAGAATCAGG
CNTTCCNAGTCATCTTGGCTGCCCTAGCTCTGAGCTTCAGGGGATATATGACTCAGAAAT
GCTATGCTTTCTGGAATTTGGATATTTCATTTTTATTGTTCTTGGTAAATTCTCTTTTGA
CTTAGGAGAAGCTAACTATTTGGAAAGGTCTCTCAGAACTCTAATTACAAATATATGGTA
CCTGCCCGGGCGGCCGCTCG
Sequence 759
CGNCCGAGGNACTGGNTTGACANTGTGTTTAAAGTCAAAAGATTAGGCTTGAGATCTCTT
TCTAGTGNGATGGTTTTACAAGTATATACCGTATGTTAATGNTTAAAAATTTCACACCCC
AAAAATGTGCAGNATACCAGATGTTAATTATATCTCATAAAGCTATTAAAATTTTATCTC
AAAATTATAGCTTTATTGCATTTAGGGCATTATCCAATTTTGAATCTAGTCCAGTTATCA
TAGCTTAATGCAGTATTATGAAAATAATGCCTATAAAGGGCCAGTTCCTCAAACACCCTT
GGAACCAATTTTGCCATCTATATTAGNNACCTTGGGCTGCNATAATGAAGTACCCTCGGC
CCGCTCTAGAACTAGNNGGGATCCCCCCGGGCTGCAAGGGAATTCCNATATCAAGCTTAA
TCGATACCCGNCGACCCTCGAGGGGGG
Sequence 760
CGCCCGGGCAGGTACTTGTAGCAGTCCACAAAGAGAACAGCCAGAACATTCTCTATGCCA
CTGCCTGCTTCTGGGTGAATCCCAGGTGTGAGTAATGAGGCTCACATGAGTGGGTATATC
ACTAACACGGCTTAGGAGCCCCATCTCNAGTCATTATTTTGCTTGACAACCATGAGCTTC
CAGGATCCCGACAAGGCACATGGCAAATTACAGGAGTCCTCACACTAAGAGAAGCCCTAA
GCTATGGCCAGCACAGGTATTTATAGTTCCTCCCAGTCCTTTCGCAGTTTACCAGTGGGT
CATTTTTACCATAAGCAGTGTTGCCTAGTAACATAGCTGACATTCTGCCTGTATGGTTTC
CACGGGAACAGAGCTGATAGCTGGGTTAAACTGAATCCAAGCCCAA
Sequence 761
TGGCGGCCCGCCCGGGCAGGTACACTTTTTTGGCTTATGGGTATCTTAGTTTAACCTTTT
CTNTTTGAGNGAACTGTGTCATTTCAAAAGCCTGAAGACATTGTGATGACTGCTGCCTCC
ATAATGGCTACATTCTAGGGGCTTTGCCCTGAATCGAATATTAACTCAAAAAGCAAACAG
TACCT
Sequence 762
CTCCTATTTGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGCCACACCAAAA
TCTGGGAGAAGACTATTTCAGGAAAGGAGGAGGAAATTTGAAGACCTGGGGCTAGAATGA
GCTCAACATATTCTAAGATCGGCAAGTTTAGTGTGGCTGGAAAAGAATGAGTAAAACAGA
GAAACCTGANATAAGATGAGGTCACGGAGAAATGCATGGGTCAGACCACGTATAACCTTG
CAGGTCATGGTAAAGGCATCTGGACTTTATACTGAGTACCTGCCCG
Sequence 763
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTGGGTTTATTTGCTTAGGATAATGGCCTCCAGCTGCATCTATGTTGCTGGAAAGG
ACATGATTTTGTTCCTTTTTATGGCCTTGTAATGGTTCATGGTGTATATGCACCACATTT
TCTTCATCCATTCCAACGTTGATGGACATCTAGGTTGATTCCACGTCTTCACTATTGTGA
ATAGTGTTGCANTGAACATATGAGTGCATGTGTCTTTTCAATAGAACTTTCTTTTTTCNT
TTTGGGATATACCCCCCANTAAATAANAATTGCTGGGGTCNAAATGGGTATTATCATTCC
TCTTTTTAGTAAACCAACTTATAAAAAGATTTTAAATCAAAG

Table 1

Sequence 764
TTAGGAATTTNTATATCAAAGCCTTATCGAAACCCGCCNACCTCNAAGGGGGGGCCCGG
GANCCAACTTTTTGGTCCCCCTTAANGGAGGGGGTAAAATGCGCCCCCTGGGCGGAAAAC
AAANGGCAANAAACNGGGNTCCCCCGGGGGANAAAAAGGGNATACCCCGCACANATTCCC
CACCAAAAANTANCCCGGCCCCGGGGAGCAANAAAAGGGGAAAAAAGCCCNGGGGGGGGC
CCTAAATGAAGTGAAGCCTAACTTCACAATTAATTGCGGTTTGCGGCTTCACTNGCCCCG
CTTTCCAAGTCCGGGGAAAACCCTGTCGNGCCAAGCTGNATTAATGAAATCGGGCCCAA
Sequence 765
CCGGCAGGTACATTCAAATTTTTGTTATCCTCTTCAAGAAAGTNACCTNGGTAGANTNCA
TATATATCCCAACATNNTAGGAACTCATAAAATGCATACTTTTTTGGTGTGATCAGAGAT
GGGTAACTCCTTATTACTTGTGGGTAGATAGTTTTGGAAATAGCCTGGAGTCATTGAGAG
CCAATCCTTATCAACAAAATGGCATAAATGGACAGGAATGGGTTCTTCTTCACTTTAGAG
ATAGCTCTGAAGACATGTCTCAANTGGGATNAGTTCAGNTGCATATATGAATAGCAGTC
Sequence 766
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGATTCA
GAGTGAGAAGGCATAAAGGAGAATCCCCAGCTGACTTGTGCAGTGGTTAATTGAAATTAT
TCAGGCAAGAGATGATGGTGTCTTGGACCAGGGGATGAGGAAGGCTACAAAATGTGTCTA
CCTNATTCTGTGAGGAGAACGTGTTCCCTGGTTTTAGATACTGTGAAGATGGATCAGGAG
AGAGTTTATCTAGACTGTTGGGGAAAGGTGTTGCGATTCCTTCAGCTACACAGGATTGAA
AGGAGACATTTCTGAAGGGGAAAAAGGAANTGAAAAAAAAAAATNNNANNNNNNNANAAA
GTNCC
Sequence 767
TCGCCACCCATNTGTGAGGCACAAACTGTNGNNGNCTNCATTTCACAAATGCAGAAACTT
AGGACCATGATAGATGAATGATTTGTC
Sequence 768
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACATGGGGACCGCCAGG
GGCCTCNAGAATCGGTATCCTGAGTCCTCTTGAAGAGCAGTAGAGGTTGTTTCATTAAGT
GCAAACACATTGTTCTTAATTTGAAAACTGTGGGCAGAAACAGAAGCCCGAGACTAATTT
TTCCATTT
Sequence 769
TTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTAATGGCAAAAGAGA
ATCTTAATCCCTAAGAGCTTTTTCTAATTGATGGACATCATTTTCCAATTGAACAAATTG
GAATTTATTAGTGGTGACTGTGGCTTTGAATCTGAGCTAGTTTATTCTTGCAGTCACAGA
GAGTGTCCTTATAGAAAATAAAAAGGGAAAAGCTCAGTTCTGCTGAATATAATCAATATA
CACAATCAATTGATAATTCACAACTACCTCCTTTGCCTTCTTGCACACTCTTCCTGCCAC
TCAGAAACATCCATACTTACTCTTCAGGATGGGTTTTTTGAGCCTGAATTATCCAGATGG
GCTGTTTCAACTTTTTCAGCCATACCTTAAAAGTTGAAAAGGGATGGCCCTAATTTCCAC
CTCTAATTCCCCTTCCAATTTCTGGGTTTGAAGCAAGACTNGAGAACTTGGG
Sequence 770
TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGATTTCCTGA
CATTGCTATTTATATGATGCCACTTAACAGGTGCTTGGAGGAAACTCCTGACTCATTGCT
TACCTCTCAGGGCTATGTAAAAACCACACAGAATTTATTAAACACATCACAAGTGGTACC
T
Sequence 771
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCTGCGCCAATCAT
CACAGCCTGGTTGTATCAAGTGTGTGCCAAACTGCCTGCGCTAACAACCAAATGCAAATG
TCATACGTCTCTGTCACTAGCAGCATAGTTGCTAGAGAGACACGTGTGAGCCACACCTCA
AAGACAAGCCTTCATCATCTTTTCCTGGAGATAGCTGACTAGCAATCAGATGTTCAAATA
AAGCTACTTTCTTGTACCTGCCCG
Sequence 772
CCGGGCAGGTACTGNTTGTGATCCAGCTACTGAGGTCTTGAACCGAACAGACCTGGGAAG
NGTCTCANAGCTGTCTCTCAGGCTCTGAGAGAAAGTAGCCAACACTACAGTAGACAGAGA
GAGACAGAGATCAAGACAGGAGACAGAGACAGCATAAGACAAAAATACTTTATGAAATTG
CCAAGTCCTCAAGACAATTCTAGNTAACNTCTTTTCAGCNAAANTGGNTGGAACCCAGGG
CTTTTAACCTCCAAAGGTNNCACAAANNAAATNAAAACTAAATNANNAANAATNGCTTCN
CTNNGGGCGCGNCTTCTTATGTAAACNTATNGNGGGGNTATACCCCNCCCGTGNGCCNTG

Table 1

GCCATGGGGAAATTTTCCGCAATTTTCCANAGGCCTTTTATTANTGNATNATCCCCGNTG
CANAAACANCTANTNNAGGGGGGGNGG
Sequence 773
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCAGTCACTTAATGGCCCCATT
ACCGCTCCTCTGTCTCCCGTGCTGCTAGCTCCTGCTTCTAACTCTCATCCCTAATCTTAG
TGTCTATGCCCTGTTCTTTGATGTTTAATCAATTGCTTTTGTGATTTTTTTTTTTTTTTG
CTATGCTAAATGCCATATTTAAGTTTCTCAAGATTTTTTTTTAACCTCAGGAGCAGAAAG
GTGAATTAATCAGACTCTTTAGCCTGTGGCAATTTTGTTGTATAAGGTCCACCTGTCTTG
TCTTATTTTTCCCTTTATGCCAGATTCCACCACCCATCAGTCCCTGGCCTATCCCAACAA
GGCACCCTACACTTAA
Sequence 774
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCAATTAA
TATTTTATTGAGGTGCCCTGTAATCTGACATTCCAGGGAGCTTTCAAGGAAACTTTGTCA
CACTAAAAAAAAATTGAGGATTGTTTTGTGGTTATTCCGCTCCTTTGTCTTCTAACCCAC
AGAAGTTCTGTCATGGTTCTTAGGGGTTGTAGGGTGTGTCCACTTATTTTAAAATGTCAA
AGACCAGAAGAGTGGAGAATGGGAAAGTGGCAAAGTGTTAGCACTGGAAAGATGTTTAGA
GATCACCGTAGTCCAACCCTTAAATTTTATAGATGAATAAACCTGGGTATCTAAGAAAAG
CTTAAGTGACCCTGCCCTGGAAATCACACCAACTAGGT
Sequence 775
ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCT
GAGATTTTGGAGTCTGGTGGGTTCCAGTCTTGCTTTCCACCAATAATTAGCTTCACTTGA
CTTCTTTGGGTTTCCGTTTCCTCATTTGTATGAGAAAATAGGGATCATGAGAGTACCT
Sequence 776
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTGGCACTGAGC
CAATGTATGCTATCAAGGAAAGCTTTATCTGTCACTGAGCAAAAGGTGAAGTTCAATTAG
GTCAGTTTTATCACTTCTTTTCCTACACACAAACTATGAGGAGAGATCATTTCTTTTCTT
TCTTTTATTTATTTATTTTTTTTGAGACAGGGTCCCACTCCGTCGCCCAGGTTAGAGTAC
CTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnGAGGGTTAATTGCGCGCTTNGGCGTAATCATGGTCATAAGCTGTTTCCTGNGG
Sequence 777
CCGCGGTGGCGGCCGCCCGGGCAGGTCTCAAACCCCAAGACTGAAGTGATCCTCCTACCT
CAGCCTCCTGGGTAGCTAGCACCATGGCATGCGCCACCATGCCCTATTTTTTTTTTTAAA
GACCCTCACCTCTTAAAAAAAAAAAAGTAGATTAAAAAATACCACAATTGCTCAGGTAGA
TTGAAAAACAGGCATATAGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnCGTCGACCTCGAGGnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnTAGTGAGGGTTTAATTTGCCGCCGCTTGGGCGTTAATCATGGGTC

Sequence 778
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACCATAGATATCC
CTGGGGGATGTAGTGGATTCAAAACATGAGTTGGATTCTCCAACGTGCCATCGGAATTCT
TCTAATATTCAGCAGCTTTGATTGTTGTTTTACATCTGACCTGTATTTAGATTTCTCTGA
TTCCTGGAATATTTGTGGAAAATAAGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGTTAATTGCGCCGCTTGGCNGTAATC
ATGGTCATAAGCTGTTTCC
Sequence 779
CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTATTCCAGT
TTTGCAGATGAAGAAGCTGGGATTTAGTGAAGTTAAATAACTAGTAAATAGAGAGGGCTA
TGTTCCATCCTAAGTTGCTTTTGATTCCAAGACTGCTATGGTATTTTGAGACGGCTGATT
TGGTACCTGCCCG
Sequence 780
CTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTTTGTAGATG
GAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTAC
TTGTAGGACCCTATACNGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGA
AAATGGTAGCTGAGACCAATGATGCCGACCTCCCTCAAAAGCTGCATTTCTGAATTTCTG

Table 1

AAGGCAAACTGTCTGCCTATATTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCNTCGACCTCGAGGGGGGGG
CNCCGGTACCCAGCTTTTTGTTTCCCTTTAGTGGAGGGGTTAAATTGCGCC
Sequence 781
CTTANGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTGGTGAGAA
GGATGTTCATCAGGAAGGGCATCATATTGTGTAAAGGGCACAGGATTGAGAGGAAAATTC
ATAAGGCAATGAATGTATATTCACCTAGCCAGCCCAGTCATACCGTCAGAGACATTTTTA
ATTCCAATATGTTTGGTTACGTTTCTTAAAATTCCAACCTATGCTCCTTATATGATACAT
TCACCTCTTTTGTAAGCATAATCTCTTTACCATTACCAATTAATTGCAGCCCATCCTATT
AGCTGTAGAAGAAAGATGTGGCAAATTTGGGGAAGTAAAGAAAAAAGGGGATCAAGGAAT
AGACATAAAAGATTTTGTGATCACCTGGCGTATATCTACCCAGNTACCTTTGGGTGGTTA
CTTCCTTTGGAAAG
Sequence 782
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGAAAAGATCCC
AAACCTGAATCTAATAATGAAGAAATACGATACAAATGAAAACTGAGAAACATTCTACAA
TGTAACTGAACTGCAATATTCAAAAGTATCAAGGTCATGAAAATCAGGGGAAGACTGAAG
AACTGTTCTAAAATGAAGAGGATTAAAGAAACATAACTAAGTATATAACCTATAATTCTG
ATTAGATCCATTCCCTACACAGGGCATTGAAACAAAAGCCAAAATGTGTACCTGCCCGGG
CGGCCGCTCG
Sequence 783
CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAG
GCAAAAAAGCAATCAGTATGACTTGAACTGCTGGGTTTAATTACTCAATATAACACTTGC
CATTTAAAAATCCATATGCCCATCAGCATGGCAACAGTCTCTCATAAAGATTCCGGTATC
ATATGGCACAATTTGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGGTACCCAGCTTTT
TGTTCCCTTTTAGTGGAGGGGTTTAATTGGCGCCGCTTTGGCCGTAATCATGGGTCTTAA
GNCTGTTTCCTGTGGTGAAAAATTGGTTATCCGCTCACAAATTCCACACCAACATACCGA
GCCCGGGGAGCATTAAAAGTGGTAAAAGCCTT
Sequence 784
CCGCGGTGGCGGCCGAGGTACGCGGGATGTGACAACCCTGCTGAAGTGCCACCTACTATA
TTTGGTCTCAGCGATTAAACGAAAAGAGATGGTAAGGCAACAAAAATTATCAGCATATAT
TTTCAGCTTCTTTGAGTTTTGCAGATTAGTATAGTTCAAAGGATAGACAAATTCACTTGT
TTTCATTTTGTCTTTAAGATAAATAAATTTTGGTACCTGCCCG
Sequence 785
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTTTCACTCTCATCAAACTAGACTACCGACTG
TTTCTCGAAAAACTTTTTCCACCTCTTCACCTTTGCTTATGCTTATCTTTCTGTCTGGGA
AGGTTCCTTCCACCATTCATCTCTCCATTTAAAAATATTTTTTGAGCACTTTTTAATTTT
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nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGAGGGGTTAATTGCGCCGCTTGGCCGTAA
TCATGGGTCATTAG
Sequence 786
GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGGAT
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GGCATTTCAAGAGTGTTGAAAACATATGTTAGATCTGGCATGTTTAAATAGAAATCCTTC
TGAGCCCTACTTTGGGGGCAAAGGGAGCCGGCCCATTTATAGAGCTCTTATGATGTGGTA
GACAGCGGCAGTACCT
Sequence 787
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCATGTGCACGTGCGTGTGGTAGTAGGCAAC
TGCTCAAATGTCAGTTTTGAGATGTTGTTGGTGGGCCTGTGTTTATCTGTAACTGTATTT
ATGTAGGTGTCTCTTCAGAAATATGTCTGAACTGGGCAATTTGTTGTACCT
Sequence 788
AGGTCTTGAGTCGACCCACGCGTCCGTGCCTTACAACTGGATCTCATGAGACATTTCCTC
AACTGTGGCTTATAGTCTCTGATGAATCTANGTTTGTGCCAAAGTTAATACAAAATCAGC
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CCCGGCGGCCGCCAC

Table 1

Sequence 789
AGGTACTTATATGCTAGGAGCCTGGGACATACTTTTATTATTTCATAATTTTACATCTTT
AAATCTTAAAGAAACATCGGTAATATCTGCATGAATCAGAATTCAAACGCAGCCTTGCTT
TCACAATCATAGATTTTCAGGATCAGAAATTTATTCTGTCAAGAAGAAGGATGACCAAAA
ATGCCGGACGCGTGGATCGACTCAAGACCTGCCGGGCGGCCCGCCAC
Sequence 790
GGGCAGGTGTCTTAGGTAGGATCTTGCTACTCTGTGTGCACTTATCTTGGGAGTCAGAGT
AAGTTCAATTTGTCTACTTTATTCTGTGGTAGTTTTTCTTGTATTTTTACACTACGTCCT
GTGTGATTTCATTTTCATTGTAATTTAGTCTTTTTGTTTATTGGGTTTTTCTTCTTTCAT
ATTGGCTTCATCTAAGGAACAATAATGTCATTGTTCATTTCAGAACCAAGAAAATATAGA
ACACCTAGAAAATCAATCAACCAAACAAACAAATGAATAGTAGAAAATCAAACACACATG
TATTGCCTCTTGTTTCTTGCTGNAATTTTTCCCTC
Sequence 791
AGGTACACTTTTTACACCATAACTGCCATGTGGTGATAAGCTAAGTCATCTCATTCCTTC
TCCCTTTCTCTGTGCCTGTCTCCATGGTCATTCGGTCCTATCATCTGTTAACAGGTAGGA
GAAGGCATGTTTGCATTTGAGAATGATGGTTACTATAAGCAGTCAGTTGCTTATACTGGT
CTATGAAGCATCTAGGACTGTCCCACAAACAAGAGAAGGAAAAAAAGCCAAATGGAGCGG
ACGCGTGGGTCGACTCAAGCACCTGCCCGCGCnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnTGTTCCCTTTTAGTGAGGGGTTAAATTGCGCGCTTGGCCGTA
Sequence 792
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTTTACT
ACCCAAATTGATATTACTACCTGAGCATTTTTCATTTTCTTACATAATCTTCCAAAACAT
TCATTTTATCTACCACAAAATATTAAATTGAATAAAACATTTTTGCTGAATTTGTGGAGC
TGGGCTTTTAGACCGGTTTTAACATTTCAGTGTAATATGTAATGCAGCTCAAAAGCTTTG
TGCAAGTGGT
Sequence 793
AGGTACCCTCGGTTGCAAGCACAAGCAAATGTGCCAGGGTGGTTGATGCAGCTGTGGTCA
CAGGTCCTATCCAAAGAGCACTCGTCCACATCTTGGCAAGACTTCTCATCTGTTAATAAT
TTAAATCCTTTCTT
Sequence 794
CGAGCGGCCGCCCGGGCAGGTACATCATGCCTCCAGTTCTGGAGCTAACACAGATTTCTC
CAATTTCATCTGTTTTGCAGAGCTGGGGAGGTCCATCTGGTTTCACAATGCACATCATCC
CACCAGGCATTACATGCCCTACATCCTGGACCGTCAGTGCTGAATTTTTATCTTCAGTAT
TGACCCGTATTACCCCATAGCTCAATCCATTCATTGAGAGAATGGCTCTTCCTGGCAAAG
GGGCTCCTGGAACTCCAGGCCTGCGGATTGCTACAGTCATGGCTTCAGCAGACGTGGCGC
ACGGTCAGATGGCCTCAGGCTTCAGTCCATGACTTTGGAACAG
Sequence 795
AGGTACCCTCGGTTGCAAGCACAAGCAAATGTGCCAGGGTGGTTGATGCAGCTGTGGTCA
CAGGTCCTATCCAAAGAGCACTCATCCACATCTTGGCAAGACTTCTCATCTGTTAATAAT
TTAAATCCTTTCTT
Sequence 796
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGCAATCAGAGGGTGAATGATACGCACACC
TGTGTATCTCCCATATTCTGCAACTTCTGTTTTTATTAGAAGTGTAGAATAAGTTCCCAT
CTTGTCTTCTAAGCTTTCAGGTTCCCAGGGTGTACCTCGG
Sequence 797
CCCTTTCGAGCGGCCGNCCGGGCAGGTACTTCCTTTTTTTTTTTTTTTTTTCTTTTTAGCT
ACCTGGGTATCTAGCTTGGGACCCTGTCCTCTTCCCACTCCACTGTAGGGTAAGATNAAA
CTTTTCTAGGATTNTTATTAATGAAATTATATAGCATGGATACTTTTATATCTGGCTTNT
TTTGGTTAGCATAATATTTTTGAGATTTATCCACGTTGCTTGTATCATTAGTTTGGTCAT
TTTGCATTGGTAANCAGCATTTCATTGGGTGAACATAATAAAACTTTATTTTTCTGGTGA
TGGACATTTAAATTGGTTTNCGATTTGGATAACTGGAAATAAAAACTGCTATGAACACAT
ATGGTCAANTCTTTATGTGGGCAGATAAATGCTATTTTTTAAATTTAAGAAAAACTAAAC
AACAGAAGTGAATTGANTAGCAAGTCACCCATATTTAAAGTTGGAATCATCTGAAAAGAT
TATATATCTTGGTTAAAAACTAAAAACT
Sequence 798
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATCATCCATAATATCTTACTCTCTAATCCA

Table 1

CATAATGGAGTTGTGCCAGACTCCAAACTGAACATAATATTTATATATACATATATATTT
ATATATATACACACATACATAAACTATAAACCTGAATATCTTAGCATACAAAACTTATCT
AACAACTAATAATTTAGGATTCCTTTGAGAGGGAGGGGTTAGAAGAAACTCTTCTTAGTC
TTTGAAATAGTNCTGACAGTAAGCAATAAACAACATTATTAATTNCTGGGTTCTCATTTA
TTCAAGTGAAAGACAAATAAAATAAAAATTCACTTCTTGAGCCACTAGAAATTTTGAAAT
CATAAAGGATTATTTGGGAAATGAGTAAGTCTTTAAGAACAATTTAGTGNTATCTAAAGT
AAAGTGGATTTTGGTAAGATACAGAGAAAAANTCTATGCATAAATNAATTCTTGNTTCAT
TGAGCAACTATAATCGCTAAGGGGGGTCTTTNTAAGNATCTCAGGAATGTTTTTAAAATA
TTAATAGTGAATAAATTANATTGAGGATAGGGACCAATC

Sequence 799

AGGTACTCAAAAGGCATTTCCGCTTACAATTTGTAGAAACACAAAATGCGTTTTCCATAC
AGCAGTGCCTATATAGTGACTGATTTTTAACTTTCAATGTCCATCTTTCAAAGGAAGTAA
CACCAAGGTACTGGGTAGATATACGCAGGTGATCACAAATCTTTTATGTCTATTCTTGAT
CCCTTTTTTCTTTACTTCCCAAATTTGCCACATCTTTCTTCTACAGCTAATAGGATGGGC
TGCAATTAATTGGTAATGGTAAAGAGATTATGCTTACAAAAGAGGTGAATGTATCATATA
AGGAGCATAGGTTGGAATTTTAAGAAACGTAACCAAACATATTGGAATTAAAA

Sequence 800

CCGGGCAGGTACTACCCAAGGTCCTCTGTGACTCGCCGCCCACTACCCAAGTGAATGAGT
CTCCCCTAGAGCTTTGCTACTCAGAGGGGTCTGAGGACAACAGCATGGGCCAACACGTGC
ACTCGAGCTGCCTGGAGATCTTGTTCAAAGGCAGATTCTGAATGAGTAGGTCTGGGTTGG
AGCCTGAGAGTCTGTACCT

Sequence 801

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAAATAAAATTTTAATGGAACAC
AGCCATGCCTGTTCATTTACATATTGCATAACCCCTACCCCTAGAATTGAGCAGTTGCAA
CAGAGGCCATATGGCCTGACAAAGCCTAAAGTGTTTACCTATTGGGTTCTTTACACAAAA
TGTTTGCCCACCCCGGATTATATCATGGACTCGACTTGTTTTGGTTTCATATTCATAGTC
TGAATATATTTTGGTAGCCTTAACAGTTCTACAGGGAGAGAATATACAAGTCAGGCTATT
CTAGGTTTTCTGTAGTTTCACAGATTTGTCATTATAATCAGAT

Sequence 802

AGGTACCAGGACCTCTAACTCCCCCTGACACAGAGCAATTAGACTCCCATAACAATGGTA
TCAATTATACCACTCCATTGGAGGGACTTCCTTTATGTGTCACCCAGGATACATTGCTCA
ACTGCAGTTGCCTTGCAGTTTGATCCCAAGCATGGTTGAGTTACCATAAAAAAATTATGT
ACCTGCCCG

Sequence 803

CCGGGCAGGTACCTGCTAAGTGCTGGACAGCCTTTCTCACATTTCCTCCCAGCAATCCTA
GAGGCAGGCCTGGTTGCCTTTGTGAAGCTCAGAGTGGTTAAGTAACTTGCTCAAAATCAC
AGAGCTACTAAGTGGTACCT

Sequence 804

CCGGGCAGGTCTTCCCAGGGATAGTTTTCCATTTGATTAAAGTTTTGTTCTTATGTTACT
TTTTACTGTTGTTTTTGCAGTTTACCTAATGCTAATAGGGTCTCAGGAACTGTATTTGAT
GTTAAAGTGTGGTTTTTCCAGAAGATGACAGATAATTGGTGGTCTCCCCTTTTCCTCAGC
AACATAGTTTGTACAGCATACTGACTCAATTCTTAAGTCTGATTTGTGCAAATTTTTATC
GTACTTGAGAGTTACAAAGCAAGTGAGAACTTGAGGGATCAAGATCCTGGAGAGAAGGAA
ACCTTAAAAGGGTAAACCCAACATTTGGCTCTACTTTTCCCCTTGAGGTAT

Sequence 805

CCGGGCAGGTACAAACCCCAAGTGATTATAGAAAAATCAATGTGGCAGCTACACTAGAGA
TGTCCAACCCCAAGGCTATGGGCCGTTGCTCCCTCTTTCCCCCCAATCCCAATCCCGCGT
ACGCGGGGCCTCTTTTCCGTGGCGCCTCGGAGGCGTTCAGCTGCTTCAAGATGAAGCTGA
ACATCTCCTTCCCAGCCACTGGCTGCCAGAAACTCATTGAAGTGGACGATGAACGCAAAC
TTCGTACCT

Sequence 806

AGGTACCCCTAAGTGGGAACCTACCAGGACATTCAAAGCAAGAGCAGTAAGTTCTGAATG
TTCTGGGACAACCTGGGTGATATGCATGGATATGGGCTGTGGAGGCTGAGCATTTTAATG
ATAACTTAGGGAAACGAGGCATGGCCATGGTGTAAAACTCTCAAATCCCAAGCCCTAATC
CAACCTTAAAATCCGAGTCTTCTAAAGGGCTGTTTTAACCATGAAAGGACCATAAGAAAG
GCAATTCACAGAAAATGAAGCCATGTGGCCAAGAATATAAGAAAAACAGTAAAAGCCCT

Table I

TAATCTCAATAGCAATAGAGTGGATGCAAATGAATATAAT
Sequence 807
CTCTCCAGTCTTTGATTGTCCCGCAACAGTATTACAAACAAAAGGCATTAGGCAAAGCAT
GCTGAATTGATTGGAGTCCCTTGGTCAAAGGTATTATTGATTGACGGCAATCAGATCCAC
TCCCTCAGAAAGGATTTGAGTAGGCCTNTTCTGTCCATCTGCAGAAGGTTCCCCAAAAGG
GGCAGAGGGCCGGGGCCCTGGTGGGAGGGTGCCATGGGAGTTAGGGTGACCCTGAACCAG
GAGTAGCAAG
Sequence 808
AGGTACTGAATTCTACCCTGGAAAAACAAAACCCAGGTGTCTCCTCAGCTTCAAAAACTC
TCAGGGAATGAATCCCTGTGTCCTACACCCAAGTATGTGGAATTTAAGAACCTGCTGTGG
ACCTACCTATTTTCTTAGAAATATGCAGCTGAATATAACCATTTTTGGATATTTGAGATC
ATTATGTACCTGCCCG
Sequence 809
AGGTACCAAATAATGGAGCTAGAATTCCTATCAAAATAATGGAGCTAGAATTTCCATCAA
CATATAAAGTCCATATGTGAGCCTCATATAAGGCAAACTGTAAAATCAGTCAAGGTTCTA
AGTCTTTCCTCCAAGATCTGGAAAGAGTGATTGAGCATTCGTTATTTTAAATTACGGACT
ATTTTTTTCCATACAAGGAAGTTAACATCTAGAGCGATCATTCTCAAACTTTATTGTATA
CCAGAATCATTTGGAGGATTTATTAAAACACAAAGTGCTGGGCCTTACTCCTGAGTTTCT
AATTCTGTACACTCTGCCCCCATCCCGGGATGAGCT
Sequence 810
CCGGGCAGGTACAGGTATGGGGACCACAGGAACAGTTAAATTCATGGCATGGCTGGTCTA
CCACACAGTCGGGGGAATTCTTTAAATAGAGCCTGTCACTCTCTTGGCCCATCAATGGGA
TTTCCTTCTCGAAACTGCTGATTCGTTCAGGTACCTCGGTCGCTCTAGAACTAGTGGGAT
CCCCCCGGGCTTGCAGGGAATTCGATATTCAAAGCTTATTCGGATACCCGTCGACCCTCG
AGGGGGGGGGCCCCGGTNCCCCAGCTTTTTGGTTC
Sequence 811
CCGGGCAGGTACTTAAGAACTCTCCAGGTAAGGAGCATGGCTCTAATGGGAAATCCTTCA
GGTCGGGGTGAAAGAGGAAAAAAAAATGGTTACCAAGGATGAACTGTAGCTCACTTAGGA
ACTGAGCTTTCAGACTCCCATAAGAGCTAAATGATAAAAGAATTTTTTTTTTTAAGAAAA
AAGGAAAAGAAAGAAAAGAAGAGGAAGAAACCAGGAATTCAATAATGTCCTCAGAAAACA
AAGCAGTGATTCCTTCCTCATTACTTTTGAGCAATGAGACCCCTACGCTCCCGCGTACCC
TCGGCCGCTCTAGAACTAGTGGGATCCCCCGGGCT
Sequence 812
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ATGTTCTCATCCACAGGGTCGATTCCAATAACTTGAAGCCCCAAGCCGCCCTAGAGGTTC
AGTTAACAGCCCACCACCACCACAGCCAACGTCAAGAATCTTCATCCCCAACAAAGGTTTTTN
CTGGCTGGTGATTTAGGGAATTTGTTTTCAGAAGATTGTCCCTAATTAAAATGNCACCCC
TCNAGGTCATTNCATNGGAAATNGAAGAGGNGCATATACTCCCTTGGTTCATNCCCACCA
TTTGTGNAGCCANGGCCCAAGAAAGGTT
Sequence 813
CGCGGNGGCGGCCGCCCGGGCAGGNACTNTTGCCNGGGANGAAAAAACCCCGACAGCAGC
AAACNGCAGAANCNNCAGACNGCAGGCTGCNGATGGNGAGAGGGAACNCCGCCCCANACC
CACNGCCACNGAACCNGGCNGGGANACCAGNGGCCCNGGNGGANGCACCANAGANGAGGA
GCCCGGGTNTTCTGGCCAGGGGGCNGCNCGCACCNCGGCCGCNCNAGAACNAGAGGACCC
CCCGGGCNGCAGGAANNCGANANCAAGCNNANCGAAACCGNCGACCNCGAGGGGGGG
Sequence 814
GCATTGGAGCTCCACTTTTGGTGGCGGCCCGCCCGGCAGGTACTCATCAGATGGAATGTT
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GGTAGCTGGGCGTTGGCGTGACCCTTCTTTCCCTCTAGGATCACATCATGGAGAATTCCA
CCTATGGGAAAATTAAAATGATTGACATGCCCGTGGAAAGGATGCATCCCCATCTGTCCA
AAGGCTATGCGTACCT
Sequence 815
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATCACAGGATTAAAAC
TCCAGTTAAGCAACTGAGCTAATCATTGAAGTAAATTAAAAATACCAAGCTTCTTTAACC
TATCAATGCTGTTTTAGAAGCATCATCCGAACAAATAGAGATTTAGTTATAAATTGNCTG
GGCTACATTCTGTGATGAGAATTTTGCTTAGTACCACTAGAGGAAGAGAGACTAGAGGCC

Table 1

CAAGAAGAAGGTGAAAGTAGAGCTATGTGCCCAAGAAAAACTTGTAGAGATGGAATAAGA
ACTGAAACAATAGTAGAAACACTTGCCCTGAAGAAAAAGGATGGAAAAATGAAATAGATT
GATTTTTAGCTGGTAGGGAAGAAAGTTAACATAGTCTTAGTCGGTTGTGTTTTCTCAAGG
AACTGAGAAGCAGGATTAGTTTTTAGAAATTTGAANAAGGTAGTGAGAGGTGAAGCCCAG
CTGGGTCGAGTGGGGACTTGGAAAACTTTTNTGTCGTACCTGCAGGCCTNCTACACCTAC
CTTTTTTTTGGGC
Sequence 816
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GAGCCGCAGCCACCCTGCCTGGCNGGCACGGCACACNGGNNNGCAGACAGGCCCACGNAC
CNGCCCGGGCGGNCGNCAAGAACAAGGGGACCCCCGGGCCGCAGGAANCGAAAAnnnnnn
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GGGAAAANGCGCGCCNGGCGGAAACANGGCAAAAGCNGGNCCCCGGGGGGAAAANGGNAA
CCGCNCAACAAANCCACACAACAAACGAACCGGGAGCAAAAAGGGAAAACCCGGGGGGCC
CAAAGAGGGAGCCAACCCACAANAAANGGGGGGGGGCCCACCGGCCGCNNCCAAGCGGGA
AACCCGGCGGCCAGCCGNAAAAAAAGNAACGGCCAACCCCCCGGGGAGAGGGGGGGNNGG
GGAAAGGGGCCCCCNNCCNNNNCCCCGNNCANAGACCCNNNGGGCCCGGGNCGNNCGGNG
GGGGGGAGGCGGGAANANNCNAACCAAAAGGNGGGAAAACCGGGAANCCCAAAAAAAAGG
GGGAAACCCCAGGAAAAAAAAAGGGAGCNAAAAGGCNNCAAAAGGCNCGAACCNNAAAAA
GGCCCGGGGGNGGGGGGGNNNCAAAAGGNCCCNCCCCCGGGCNGGGAAAAAAAA
Sequence 817
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AAATGTTTTGGGG
Sequence 818
GACTTGTAACTGGCATCTGAAGTGTGGGGAGTCCTGTGGGATTGAGCCCTTAACCAACCC
TAAATACTTGTGCTAACTCCAGGTNGTTAGTATCAAAATTGAATTACATTGTTGAACATC
CATTTGGTGTCTGGAGAATCANAGAATTGGTTGCT
Sequence 819
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGTAAA
GAGGTGCAAGAAAACCAAAAACATAGGCATCCAAGGTAGAAGGCGTATCTCCAAAGAAAA
CTGAGATGTTCCCAATCTGTTTGATAGAAGATTTAGGCACTCCTTGGCATCTCTGTATAT
CTGTGCTTCCACTTCTCGGAGGTGGTAGAGGGGAGGCTGTCCTCTGGTCAGGAGAATCCT
ATTCAGTGCTCCCTTAGACATTCTTCCAGGCAGGATCAAACTCAAAGGAAGAGGAATTTG
TGAAGCAA
Sequence 820
CCGCGGTGGCGGCCGCCCGGGCAGGTACATTTAAGCGGAAGCATACGGGAATATGAGTGC
AAAAGTGTGGCTGAGCCGCGTATGCCCTTGATTGGTTTTGGGAAGCCTGAGGGAGGCAGC
CTTCCTGGCTATGAGCCATCGCCTGCCCAATCAGGCTAAGGGTGGTGACTGGGGTGGTGA
AGGGGCAGCTCTGCTGAGCATGGTCTGCCTTATGGCCTGAATTGTCCTCAAGGGGTGTGG
ACTGCAAATGGTGTTCACATGAACCGGAGACATCACTCTTTTAGGATTCTACTGGCAGCC
CCTGAATTGGCTCAACGTTT
Sequence 821
CCGCGGTGGCGGCCGAGGTACTGTGGGATTTGTCTTTTATGAGTTACCACGTTCAGAGAC
TAGTTCATCTTTGGTTGTATAGGATGTTAGGATCTCAGTTGGCATTCACAGTTAAATCAT
GCACCTTCAGGAACTGGGAGCATTTTGATCCAGAGTCACAATCATTCCTTTCTTATCTTC
ATCCCTATGGTATGTGTGTTCTGAAGTTTAACTGACAGATGGCAGCTGGTACCTGCAGGC
CTCCTACACCTACCTCTCTCTGGGCTTCTATTTCGACCGCGATGATGTGGCTCTGGAAGG
CGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCTACGAGCGTCTCCT
GAAGATGCAAAACCAG
Sequence 822
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AGCTACAGATAAGGGCTCGCAAAGTTGGCCTCAGAGACACATCANGAACCAAGGTGGACC
AGCAGGTGCCGAGCCTGTGTATCTGCTTGGAGGAGACGTTCCAATGTGCTGCTTGTTCAG
AGATGGTGAGTTGCAAGAAACAGAAACCCACCACAATTTCTNAGGCAAAAAGGGAGTTAA

Table 1

TTATAAGGACATAAGAGCACAAAGTTCCAGTGCAAGAGATACATCCAGGCTGCACAAGCT
CCGGGAGTGGGGCCTGGCAAGCCAAAAGAAACCAAAGTTTGTCTTGCCTTCTGTTCCTCT
TTCTGAAGCCACATAACCCTTTATTGACCNGNGTNTCTTTGCATCGCTTTTGTTTTCTTT
TTATG
Sequence 823
NCGCCCGGGCAGGTACCACAAGAACTATGAGCTGGTTATCCACTTCATGTGGAATCATAA
GCGTCCCAAAGTGACAATACATATAGATTGCCAGGCAGTGAAACAGTTAAGATGCCACCA
TAGCTTTCTTTTCAACATCTTTCTAAATTACCTTACTATTTCTTTTGTTCCAAGTTTGTA
CCT
Sequence 824
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GGAAAANGGGAACCCCNCACAAAGCCCACAACAAACCAACCCGGAGCCAAAAAGGGAAAA
CCCGGGGGGCCCAAAGNGGGNNGCAACCCACAAAAAANGGGGNGGGGCCCACCGGCCCNN
NNNCAAGGGGGNAACCNGGCGGCCCANCGGNAAAAAAGNAANNGGCCACCCCCCGGGGAG
AAGGCNGGANNGCNAAANGGGGCCCCCNNCCNNNACCNGGNAAAAAGAANCNNNGGCCCN
GGNNNNNNGGANCNNNNAGCCGGNNAANNCCCCNAAAGGGGGGGAAAACGGGGNNCNCAA
NAAAANGGGGGAAACCCNGGAAAAAAAAGGGGGNNAAAAGGCCCNCAAAAGGCCCCGAAC
CNAAAAAGGGCCCNNGNNNGGNNNNNNAAAAGGNCCCCCCC
Sequence 825
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AGTTTCAGAACATGCTGTTATGCTTGCTAAGGATAGCAGAGAAGAGTTGACTCCAGATGC
TAACATCAGAGAAGTTGGCCTTGAGGGGGCATTGTTGATCTTACTAGACAAGGAGACAGA
TGAGAGATTATGCCATGATATCAAAGAGACTTTAAATTATATGCTTACATCTATGGCAGT
GGAAAAACTCTCCCTGTGGTTAAAGCTTTGTAAAGACGTACCTCGGCCCGCTCTAGAACT
AGTN
Sequence 826
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GCTTTGGCCGTAATCATGGGTCATTAGGCTGTTTCCCTGTGGTGAAAATTGGTTATCCCG
CTCACAATTCCACACCAACATACGAGCCCGGGGAGCATAAAAGTGTAAAAGCC
Sequence 827
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GGTCAGAGGGCACCTGTATTCATAAACCAGCTGCCTGACTGTGAATCCTGATGAATCAAG
CTCAAAAGGAGAAAACATAAAATNCATAAAGTACCTN
Sequence 828
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CACTAGAATAAAATAAAATGAGTAGGCATTCCTAAGATGTGAAATGATCACCTAAGATAT
ACATGCTCCAACCATATTGATTTTAGAACAAAACACAGCAGCCCATAACAGTTTGTGGCC
TCTACTAACTGNCCTCTGCTGCCCATCTAGAGGTTATGTTTCTCTATTTTTAAAATAAAA
TGTA
Sequence 829
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TTACTGAATCCAACCATTCCATCTGGAACTTTGTATTCTTCTGTCATTACAGATCTGCTA
AGAAAACAGAAAGCACCATTTTCCTTCAATGAAAGATACTTTGTTTACAAATAAAAGATA
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Table 1

CAGACTCATGTCAAAAAATATGATCTTATTACTTGAGTAGTTAAATTAAGAAATTTAAGA
TGACACATCGAGTGAAGAAGGGATGATGAATGGAACAGTCTGAAGGCATTAACTGTAAAG
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Sequence 830
GNGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTCTNGGNT
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TCATGCNCAGNAAATTCTTGGACAACTTTGTCTTTCTCT
Sequence 831
AGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACGGGAAGGCG
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AGCTAAGGGCAAAATGTACTGTTTGAGGTTTCAGGAGTTCACTGGGGGCCTTGGAATGTA
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ATGGGAAGAGAGCAAATCCAAGTATAAGTGAAGACATTCCTCTGAATTCCCAGCATTCAT
CGAGCATCAAAAACGACCAATCTTTTAGTCCTTTTCTTGTACCTCGGCCGCTCTAGAACT
AG
Sequence 832
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GTGCTAGGATTTCAAGTATTTGGTGTCTGGCCAGAAAGGATCTGATGGGACAGATATCAA
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GCGGCCGCTCGACTGGCGTTTTTCCATAGGC
Sequence 833
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GAACTCTACAGCAGNGAATGCCTGCATGATTNATTTGGNACCTGCCCG
Sequence 834
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Sequence 835
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TTTTTCAAAATTAATTTTTCAGTTAAGGCAATTACAAACTTATCATTAGTTATTAAC
Sequence 836
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ACCACTGTACCT
Sequence 837
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CAAAACAGTCTCTGAGATATTTAGCTTTTCAAACTGTAAATAGATGCTCTAGTGTTATTT
ATTTTTTAATCCCACTTGTATTATTTTACCTCTAGAGCATCTTGTATTAGGACATGTTAT
ATTTATGCCAGTGGGAAATAAGTTATGGCCAAGTTTTGCAAAAACAGGAAGCAGTGAGAT
ACTTGTTTTTTTCTCCTCACTAAATATCAGTAATTGTCAGGAATGGTATTACCTATTTTC

Table 1

ATTTCCTCTTTTCAGCTTTAAGCTTTGNTGGATTGGGACACTAAAACTGATGTATACCTG
AGGGAAAAAATAGAATGTGCTCATGGTTAGGGAAAATTATATTATTTTTAATTTTTTAAT
TTGTTTTTTAACCAAGTAGGAATTTGGGTGTATGGATAAGANGCCAATCTGCTTCTGTAG
GCTATAGAAGAAAACCAGTTGTATTTTATGGNCATAAT
Sequence 838
CGCCCGGCAGGTACTGGGGGTAAGCTGAGAACTATCACGTTCGTTTCTTCCTCGTCCTCC
CCCTTNTCTGCCTTCTCCTTGAGAACGTCTTTGAAGTTGGGTCCACTGTTTAGGGTTGAC
TGCCTGTACCTCGGCCGCTCTAGAACTAGTGN
Sequence 839
GNACCCAGCGGGGGGGCCATTTAGAGAGGGGNAAGGGCGCGCTAGNCGAACANGGCANAG
CNGACCNGGNAAAGGNAGCNGGNCACAAANCCACACAACAAACGAGCCGGGAGCANAAAG
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GGCCAGCAAAAAGGCCAAGGAAACCGAAAAA
Sequence 840
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Sequence 841
AGGTCAACTTTAAACTGTATTGTATTCATGTTGCTAAACAATATTGGCCTTCTCGATGAT
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ACAATAACAAAAAGACATCATCTTTATCTGTACCTGCCCG
Sequence 842
TACCAGTGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGGGAGCCTGGCCAGGTTTCT
GCTGGTACCTGCCCG
Sequence 843
CCGCGGTGGCGCGGCCGCCCGGGCAGGTCAGCAGCTTTGCATGTTGACAAATCCACTCTC
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CAAACAGATCTTATGTCACACTGGTTACTCCAAAAAAAAAAAAAAAAAAAAAAAAAGTACC
T
Sequence 844
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTGGAGAGGACCATGTGAAGAGAGAA
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ACCTCNAAGGGGGGGC
Sequence 845
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTCTACGAAGTCCCATGGCTTTTCCAG
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CAGTTTTCCCCAGAGTAGTCTTGGCGGACTACTGGAAGTCACAGCCAAAGAAACTCTGTG
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Table 1

AGAATCATAAGGAAAATGTGGCAAAAAGGATCAGTGANATTAAACAAAAAAAGCNTGGAT
AAGGCAAAGGAANAANAAAAGGCATCAAAAGGAGTTTGNTTNCAATGGAGGGCANTTTGC
CNTNGAAAGNCTTTCCNAGNNGGNTTTTTTNAAAAANACNTTNGNTTTAAAAAATTNAAA
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CNTNCCCTTGGNATTTTTNNAANTTCCCCNNGGGGGG
Sequence 846
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACATTTCCTAAGTATCACA
TGACTTAACAGGTGCAAGCTGGCAGGCATCGGACTTGGTATCCGTAAGACCTGTTGCCCC
TTTGCCTTCTGCCATGATTGTAAGTTTCCCGAGGCCTCCACAGAAGCTGAACAGATGCCA
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AGGCTGGAGCCTTCCTCATCTTTATTAGGTGTCTTAGAGGCAAGTGCCGGAGGTAACATC
CTCCTCTGCATTTCCTACACTGACAAGGAGAATGCTGTGGCTCTACGCAGTCATCCTTTT
ACAACTTTTTTGCCAGGGAGCAAAAAGTCTTGNCACATNAAGTCGAATGAAGTACCTTGC
CCCGGGGCGGGGCCGCTTNTANAAACTAAGTGGGGATTCCCCCCGGGGCTTGGCAGGGAA
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GGGGGGC
Sequence 847
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCTGTGTAGCAAAC
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TTGGGCTCAGTTGGGCGGGTTTTGCTGGTGATCACTCTAATGGCTGCTTTTCTCTCCAAG
TAGCCTTTCCAGCAGAGTTGCTGGCCTTACCTGGTAGCTGATGGCTTAGGGCTCACAAGA
GTACCT
Sequence 848
CCGCGGTGGCGGCCGAGGTACGCGGGGTCGGCAACTTTGGGAACCACCAGTAGGATGTGG
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TCACTTCTAGTCCCTAACTAAATGCTCACTCAAGAGTTTTAGCTTGAATGTCAAATGTCA
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TGACCATCCAGCCTTTCCCAATTAGACTTCCTCTCCTTCCACCCCTCATTTCCTTTTTGC
ACACATTACAGGTGGTGTGTTCTGTGATAATGAAAAGCATCAGAAAAGCTTTTGTACCTG
CCCG
Sequence 849
CGACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTGTTTTAAGC
TTAGTTCAGTCTCAAGTGTTTGCAGCCACATCTGAAGACCAATAAAGCAACTGCTGGTTT
ATCCTTTGGGAGCTGACAGAATTTCTTCTCCCAAATACATACACAGTAAAATCATAAGCC
TGGAATGAAGAAAAAAAAATCTTACGGGCAATGCAATGGCTGCAAAACTATAAGGATTAG
AAATGTGAACCCACATTTTAATCCAAATTAGGGCAATTTAGAGGTGGTAGCCGTAAAGAA
TAGCTTGCTGTAATATACGCCATGCCTGGATACANAAATTGGGCTTTTGGCCCTTGTCAA
AAAATTAAAATTGTGCCTTTCNTGTATTTGATGGGTGGGGCATGT
Sequence 850
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGGCCTCTCTG
GGATAGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCTCATCA
GATGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATTTCCACCTTGGTC
CCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnCGCGCTTGGCCGTAATCATGGGTCATAAGCTGTTTCCTGTGTGAAAATTGTTT
ATCCGCTCACAATTCCCACACCAACATACCGAAGCCCGGGGNAGC
Sequence 851
CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGCAA
AGTTGCTGCCAACACTCTGACnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnCGTCATCACTATTTCTCCAGTGGTATCTGGGAGCCAGA
GTAGCAGGAGGAAGAGAAGCTGCGCTGGGGCTTCCATGGTTCCGTCTGGGTCCTAACTGA
GCAGTTCCTCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTGGGATCCCCCGGGCCTGCA
GGAnnnnnnnnnnnnnnnnnnnnnnnnnCGTTCGACCTCGAAGGGGGGGGGCCCCGGTA
CCCCAAGCTTTTGTTCCCTTTAGTGGAGGGGT
Sequence 852
ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGCAAAGT

Table 1

TGCTGCCAACACTCTGACnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnCGTCATCACTATTTCTCCAGTGGTATCTGGGAGCCAGAGTA
GCAGGAGGAAGAGAAGCTGCGCTGGGGCTTCCATGGTTCCGTCTGGGTCCTAACTGAGCA
GTTCCTCCCGCGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnCTTATCGATACCCGTCGACCTCGAGGGGGGGGCCCGGTTACCC
AGCTTTTTGTTTCCCTTTAGTGAAGGGGTTAATTTGCC
Sequence 853
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAATGGCTCACAAAGCCCAAAATATTTACTA
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TCACCACCCCCAGCTCTCTCACTGGATGGTCCATGTATACAAAGTAGAGCCCTTATTAAA
TGCAAAGATGTTGGTCTAAACCCTGCTTGATAGGATGATTGAGTAAATTCAAGAAAGTGG
TAATGAGGGCTGGGTTGCCGGTGGCTCACTCCTATAATCTCATTACCTTGGAGGCCAAAG
GNTGGGCAGATCGCCTTAGATCAGGAGTTT
Sequence 854
GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACTT
TAAACTGTATTGTATTCATGTTGCTAAACAATATTGGCCTTCTCGATGATTTTATTCATG
TTGCTCCAAAGTTAAAACCCTGTAGAACTAAGTAGGTGAAGAGATATTTTGTATAAGTGC
CACAGAAGAGAAAATATAATAAATTAAATAGTGAATTGAGCATCACTAGAATAAAATAAA
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TGATTTTAGAACAAAACACAGCCAGCCCCATAACAGGTTTGTGGGCCTCTACTAACTGGT
CCTCTGCTTGTCCCCATCTAAGAGGTTAATGGGTTTCTT
Sequence 855
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ATACTGCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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TGCACCATAGATGAGGAGCCTGGGAGCCTGGCCAGGTTTCTGCTGGTACCTGCCCGnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnCGTCCGACCTCGAGnnnnnnnnnnnnnnnnnnnnnnnnnTGTTCCCTTTAGTGAAGGGG
TTAAATTGGCGCCGCTTGGGCGGTAATCAATGGTCATTAGCCTGTTTT
Sequence 856
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ATGCAAAGGGGACTGGACTCAGAAACCAAGAAACAACTAGANGNAAGAAGGAAAAGTAAA
ATTCATTTAGGTGGAAGGAGGCACCTGNGGTGCTCTCNGGCNCGGCCCATTTTTTTTTCC
CCNCTTTTTTTTNNAAAAANGGGGNGGGGNCNAAAAAAANAAAAAATCCCCCCCCTTTTTT
TTTAAAAAAAANGGGGGGTTTCTTTTTTTGGGGGGGGGNGGGGNGGTNNTTAAAAAAAAAT
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GNTTTTTNTTTTTTATNCCCCCCCNTTTTTTTTTNGGGGGGNGNGCCNCCCCNCAAAAAA
NAANTATTTGTTGGGGGGGGTTTAANAAAAAAAAAAAAAAAATATTTTTTCTCCTNTCTT
TNTTNNNCCCCCCCCCCGGGGGGGNGGGGGAANAAAAAAAAATTTTTTTTTTTTTAAAAA
AAAAAAA
Sequence 857
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TGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGNNAGAGCAATGGGCA
NCNCGGGAGTAACAAATCTTACAAGGAACCTCCCNAAAAAAANACCCCCCAAAAAAANCC
CCCTTTACCCCCTTTTTTTTTTNTNATAANNNCCCCCGCCCCCCAAAAAAANTTTTTTTN
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CCCCCCTTTTTTTTTTTTNNCCCCCCCCCCCCGGGGGGGGNGTTAAAAAAAAAAACCCCC
CCCCGGGGGGGNGGGGGGGGGGGTNGCCCCCNTTTTTTTTTTTTTCCCCCCCCCCCC
CCCNNTTTTTTTTTTTTTTTTTNCTCCCCCCTTTTTTTTTNGTGGNTTTTTTAANNANNT
NNNNNNTANACCCCCCCCTTTTTTTTTTTTTTNCCCCCTTTTTTTTTTTTTTTAAAAAAAA
AAACCCCCCCCCAAAAAAAAAAAGGGGGGGGGNTTTTTCCCCCCCCCCTATAAAAAAAN
TTTTNATTGGGGGGGGGGGGGTNTGTCTCCCCCCCCCCTNTTTTTTTTTTTT
Sequence 858
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GGGGACGCGCGTCTGTGGAGAAGCGGCTTGGTCGGGGGTGGTCTCGTGGGGTCCTGCCTG
TTTAGTCGCTTTCAGGGTTCTATGAGCACCCTTTCACAGACCCGTTCACCAATGGGTAAG

Table 1

TTGTNACACCCAAAAAATTTTTTTNTTTTTTTGGGGGGGGANNCCCCNATAAAAAAGNGG
NNNTGGTNCCCCCNCNCCCCTTTTTTTGNGGGGGGGTTTTTTTTNAAAANAAAAAAATNA
AAAAAAATTTTTTTTGGGGGTNTTTTTAAAANTTNAAAAATTNNNANCATTGNAAAAAAT
TTTTTTTTTAAAAAAAATTTT
Sequence 859
CCGCGGTGGCGGCCGAGGTACCAATAAGCATATTGCTTTGGCAATGCATNTCCAGAGCAG
GTGACCCTGGCCGNCTGTCCTGGGGACACTGACACCNTAGGGTGGCTGTGTCAGTTCATA
GGGAGNGTACTCACNAGCCCTGTTGGCACTANTAGNTGNAANGTATTGGGTTGGGGNTTA
GNGTTTTTTGNGGGTTTTAAAAAAAAGGGGTNTTNAAAAAAANAAAAAAAGGGGGNTTTT
TTTTTTTTTTANAAAAAAGAGGGGGGNGNAAAAAAAATTTTTTTNNGGGGGGGGGGGGGG
GGNTTTAAAAAAAANTTTTTTTTTTTTNCCCCNCCCCCCCCCNAAAAAAAAGGNGGGNGG
GGGGGGNGTTNCCCCCCCTTGCCCCCCCCNAAAAAAAAATTTTTTTTTGGGGGGNGGGG
GGGNCNCNTTTTTTTGNGGGGGNTTTTTNANAAAAANGGGGGGNGNNAAAAAAAAAACCC
CCCCCCCAAAAAAAAAAAAANCCCCCCCNGGGNNCCCCCCCCNTNNCCCNCNNCATNAAA
AAAAAAANGGGGGTTTTTTTTTTNAAAAAAAANAAGGGGGGGGG
Sequence 860
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CTCATGCATCACGGAGCATGAGAAGACGTTCCCCTGCTGCCACCCTGCTCTTGTTCCACC
GGTGNAGCCTTGGCTGTAGTAAAAAAGGGTGGGGNTTTTTNAAAAAAAAAAAAGGGGGGN
NAAAAAAAAAAAAAAAGGGGGTTTGGGGGGNTTTNAAAAAAAAGGGGGTTTTCCCCCCCN
TCNCCCCCCCCCGGGGGGNTTTTTTTTTTTTTNCCCCCCCGGGGTTNGGGGGGGGGTTTN
ANAAAAAAAANGGGGGGGTNTTTTTTTTTTTTNCCCCCNCCCCCCCCCCCAAAAAAAANAGGN
GGNGGTTTTNCCCCCNNTAAAAAAAANTCCCCCCCCCGGGGGNTNTGGGGGGGTTTTNTN
TTTTTTTAAAAAAAAAANNNNNTTNNGGGGGGGGNTTTTTCCCCCCCCCCCGGGGGGGGN
ATTTTTTTTTTTTTTTNNGGGGGNTTNNNTGGGNNNNAAAATTTTTTTTTTTTTTTTCCCC
CCCCCCCTTTTTTTTTNNNTTTTTTTTGGGGGGGGGGGGGTTTTTTTTTTTTTTTTAAAA

Sequence 861
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GCGCAGCTTCTCTTCCTCCCGCTACTTCTGGGCTCCCAGAATACTCACCTGGNAGTAAAT
ANGTGGATGTACCTCAANTTCTTCNCAAGNNCCCCNTACCCCCCNAAAAAATGNCCCCNG
NNCCCCCTGTGCCCCCANTTTTTTGGGGNGNATTTTTTTTTNCCCCCTTTTTTTTTGGGG
GGGGNTTTTTTTTGGGGGGGGTNTNTTTTTTTATTCCCCCCCCTTTTTTTTTTTTTTNCTT
AGAACCCCCCCAAAAAAANAANNNATNTTTTTTTTTTTTGGGGNNTTTATNGGNTNTTTTN
CNAAAAATTTTAAAAAATNTTTTATAGGGGGGGGNGNGTGNNAAAAAAAAAGGGGGNGGG
GGTCCCCCCCTTNCCCCCNAAAAAAAAA
Sequence 862
GCGAGGTACGCGGGCATCCAGCAGAGAATGGAAAGTCAAATNACCTGAATTGCTATGTGT
CTGGGTTTCATCCATCCNACATTGAAGNTGACTTACTGAAGTAATGGGAGTAGCAGGAAG
TTGTAAACAAGGTGGGNAGACATATGCAAGCATCTTGNGTTTTTNNNGNCCCCCNTTTTT
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AANACAAAAAAAAGGGGGTTTTNGGGGGGGGNTTNAAAAAAAACCCCCCCCCCTTTTTTT
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TTTTTGTAAAAAAANGGCCCCCCCCCCCGGGANANNANTGNGGGGGGGGNGTATTNATT
TTNCTNTTTAACCCCCCCCCCNGGGGGGGG
Sequence 863
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AGTTCCAGATTTCAACTGCTCATCAGATGGCCGGGAAGTATGAAGACAGNATNGGGTGCA
GTCTCACCAGATTTCCGTTTTGNATTCCTTTTTTTNCCCCNGNTCCCCCNAAAAAAAGGG
GGNTNTNNCCCCCNATTTTTTTTTTTTTTTTTGGGGGGNCNNNGGNNNNAATTTTTTTTT
TATAACCCCCTTTNCCCCCAANNCCCTTNTATCCCCCTTTTTTTTNNGGGGNNGGGGGGG
GGGGANTTCCCCCCCCNNCCCCCCCCNAAAAAGNTAAAAAATTTGAAAAANATTTTTAAA

Table 1

AAANGGGGGGGGNTTTTTTTTTTTNGGGGGGGATTTTTTTTTTATNANAAAAAAAANCCCC
CCCCCNCNCCCCCCCNTTTTTTTTTTTACCCACCGGGNGNAANANGGGGNNTTNNNTTTT
CCCCNCCTNNNNANCCCCCCCNGGGGGGNGGNGGTAGTNCCCCCNNAATTTTTTTTTTT
TTGACCCCCCCNTTTTTTTTTTTTTTTAAAAAAAAAAAGGNGNGGGNGNTGGAAAAAAAA
ANGTNNNAAANACTTTNCCCCCCCCCNCTTTTTTTTTTNTTANAAAAAAAAAAAG
Sequence 864
CTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACCAGCAGAAACCTGGCCAGGCTCCCAGG
CTCCTCATCTATGGNGCATCCACCAGGGCCACTGGTATCCCAGCCAGGNTCAGTGGCATG
TTGGGGTCTTGGGGACAGTAGGTTTCACCTCTTCACCGCATCAAGNCAAGGCCTNTTGGG
GGTTCCCCCCNAAAAAAAAAGGGGGNTTTTTTTTTTTCCCCCCCCTTTTTTTGGGGGGG
GGANAAAAAAAAAAAAAANGGGGGNGGNGANAAAAAAAAATTTNTTNGGTTTTNTTCCCCC
CCCCTTTTTTTTGNGGGGGGGGGNTTCCCCCCAAAAAAAAAANNGGGGCCCCGNTATNNGAN
TNTTNTTTATTTTTTAATAAAAAAAAAAANCCCCCCCCCTTTTTTTTTTAAAAAAAAANCCC
CCCCCCTTTTTTTTGGGGGGGGGGGNTTNTTTTTTTATNTCCCCCTNAAAAAAANNNGGGG
GGNNGCCCCCCCCNCCNNNAAAAAAAAAANGNGNGAGTGNATCTTATTTTATNTCNAANAAA
AATNNTTTTTTTTTTTTTTNTANAATNAAANAAAANANAAATTTTTTTTTTTTTTATAATAAN
ANAAGAAATAAATTTTGCTCCCCCCCCCNTTTTTTT
Sequence 865
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GCCACTGGTATCCCAGCCAGGTTCAGTTGGCAGTGGGTCTTGGGGACAGNAGGTTCACTT
CTGCACTCATCAGGCAGNCCTGNCAAAAGGGGNNTTTTTTTTTCCCCCCCCTTTTTTTGGG
GGGGNTNNAAAAAAAAAAAAAGGGGGGGNGGNAAAAAAANTTTTTNTTTTTTTNCCCCCC
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TTTTTTTTTTTTTTTAAAAAAAAANCCCCCCCCTTTTTTTTTTTNAAAAAAAAACCCCCC
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NCCCCCCCCCAAAAAAAAAAGGGGGGGGNTTTTTTTTTTTAAAAAAAAAAAATTTTTTTT
TTTTTAAAAAAAGGNNAAAAAANNGGTTTTTTTTTTNTNGNAAAAAAAAANNGGNAAAAAA
ATNGGTNCCCCCCCCCCCCCCTTTTTTTTTTTTT
Sequence 866
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AGGGCCACTGGTATCCCAGCCAGGTTCAGTGGCAGTGGGTCNGGGACAGTAGTTTNACTC
TGCACTCATCANTCAANGCTTTGTCNNATGGNANTNTTTTATTATNCCCCCCTTTTTTTT
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TCCCCCCCCTTTTTTTTTTNGGGGGGGGTTCCCCCCCTCANAAAANAAGGNNGGAGNTNN
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AANNGGGGGGGGGGNCNTCCCCCCCNTAAANAAAAAAAANANNNTNNTTGTTTTTTTTTAAA
AAANAAAATATTTTTTTTTTTTTCTCC
Sequence 867
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GGGCCCCCTTTNCCCCCGGNAAAAAAGGGGNGNNTTTNAAAAAAAAAANGGNGTTTTTNN
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CCCCCCCGGGGGGGNGGNTTNNNCCCCCCCCTTTNTTTTTTTTTTTTTCCNCCCCCCNTTT
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TGGGCCCCCCCCCCNCTTTTTTTTTTTTNAAAAAAAAAA
Sequence 868
GGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATCTCCAGCTTGGTCCCCTGG
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CNNATATNCAAAGGCTTTATTCGAATAACNCGTTTTTTTTTANCCNTGGGGGTTTTAAAA
AAAAANCCCCCNGNNNCCCCCCCCNTTTTTTTTTTTATNCCCCGGGGGNGTTTAAAAAAAA
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Table 1

TGGGNGTTTTTTCCCNCCTTTTTNNCCCCCNTTTCNCCCCCGGGGGGGGGGGGGGGGGNT
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NAGGGGGGTNGTNNNCCCCCCCNTTTTTTNTTTATTTATNGAATTTATNGGATATTANNG
GGGGGGGGGGNGGGGGNAGTTTTTTATATAATATTTTTTANTANACCCTNTNTNTTTANT
CCCCCCNATATACCCNCCGAAAATTTTTTTTNTNTTTTTTTANGNGGNGNTTTGTTCTAN
AAAAAAAAAAAAGNGGGGGNNTGTTTTTTTTTT

Sequence 869

AGGTACGCGGGATGGCACATGCAGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCA
TAGAAGAGCTTATCACCTTTCATGATCACGCCCTCATAATCATTTGNCCTGTATGCTTGG
NTTCCTTAGNGCCCTGTTATNGCTCCNGCCCCCGTTTTTTTNTTTTTAATTTTTTTANTT
TTTNNCCCCCCTNCCCCCCTTTTTTTTTAAAAAAAAAAAAAANNACCCCCCNNAAAAAAA
NCCCCCCCCTTTTTTTTTTTCCCCCCCAAAAAAAAAACCCCCCCCNTAAAAAAAAAAAAA
AAAANGNCCCCCCCCNTAAAAAAGGNAAAAAATTGNNAAAAAAATTNAATAANNTACCCC
CCCCCTTTTTTTTTTTAAAAAAAAAAAAAAAAAANNCCCCCCCCCTTTTTTTTTTTAAAAA
AAAAAAAAAAAAAATTTTTTTNTTAAAAAAAAANCCCCCCCCCNTTTTTTTTTTTTTTAAA
AAAAAGGGNAAAAAAAGGGNNCCCCCCCCCCCCAAAAAAAAAAAATTTTTTTTTTTTTTT
CCCCCCCCCCCTTTTTTTTTTTTTTTTCCCCCCCCAAAAAAAAAAAGANGGGGNGGNTNGGN
ANAAAAAAAAAAAACCCCCCCCCCGGNGGGGGGGGGNGGGGCNCCCCCCCCCTTTTTT

Sequence 870

GAGCTCNCCGCGGTGGCGGCCGAGGTACACTTTTGGCCAGNGGACCAAGCTGGAGATCAA
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CCCCCNAAAAGGGGNNGNAAAAANGGGNNAAAAAGGGNGGGGGNNTCCCCCNCCCCCAA
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TTTNGGGGGGGNGCCCNAAAAANCCCCCCCCCCNNGGGGGGGGGGGGGTTTANAAAAAA
AAACCCCCCCCCCCCCCCTTTTTTTTTGGGNNGNANAACCCNTNNNCCCCCCCCCNCCTN
NNTTTTTTGGGGGGGTTTNNNTANTTNNNCCCCCCCCGGNGNNGGGGGGGGGNNGNAAAA
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TTTTTTTTTTTA

Sequence 871

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GAAATCTGGAACTAGCCCTCTGNNGNGNGCCCTGCTGAATAACCTTCTATCCCAGNAGAG
GGGGGGGGNGCCCCCCCCCCCCCNAATTTNAAATTAAAAGGGGGGGGTTTNNNNAAAATC
CCCCCNCCCCCCTTTTTTTTTTTNCTTGGGGGGGGGGGGGGGGCCCCCNANNCCCCCCGGG
GGGGGGNCCCCCTTTTTTNTTCCCCCNTTTTTTTNNAAAAAAAGGGGGGGGGGAAAAAAAA
AAAAAAANCCCCCCCTTTTTTTTTTNAAAAAAAAANGGGGGTTTTTTTTTTTNGGGGGGGGG
GGGGGGGGGGGAAAAAAANTTTTTTTTTTTTTTTNCCCNCNCCCCCCCCCNTTTTTTTNAT
ANATANCCCTTTNCCCNCCNAAAAANAAANGAGGGGATTTTCNTTNNTTTTTNCCCCCCC
CCTTTTTTTTTGGGGGGGGGGNGGCCCCCCCCCNCNAAAAAAAAAANGGTGGGGGGGGGG
G

Sequence 872

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CCTGGCCGAAAATACATTGTAAATGTCTATCACNATATCTGAGGATGNGGGGAGGCANNA
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GGTGTGCCCCCCCNTTCCTCCCCNTCNCCCANNTAAACTAANAATTTTTTTTNTTTTNNA
AATAAATCCCCTCNTTTTTTTTTGNGGGGGGGGGAAAAAAAAAAAATCCCCGTGTTTNCC
CNNNNNCCCNGGGGNGGGGGANAANAAAAAAAAAACCCCCCCTTTTTTTTTNGGGGGGGG
NTTTTTTT

Sequence 873

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTGCTCAGTTATGGACCCAGA
GGGAACCATGGAAACCCCAGCGCAGCTTCTCTTCCTCCTGCTACTCTGGCTCCCAGATAC
CACCCGGAGAAAGTATGTGTTGATCGCANTCTTTCAGGGCCNAAAAAGCCCANACCCCCG
NTCCCCCTTTTTTNGGGGGGATATTTTTNNCCCCCCNTTTTTTTTTTTTTTTTTTNGGGG

Table 1

GGGGGTTTTNTNTCCCCNNTTTANTNCCCCCCCCCCCCCAAAAANNNAAAAAGGGGCCCG
GGGGGGGGGGGTCNANAAAAAAAAAAAAATAAAAAATNGGGGGGGGGNANAAAANGNGGG
GTNTCCCCCCCCCCCCCCCNAAAAAAANNCCNGGTNCCCCNNNNCCCCCCTTTTTTTTTT
TTNCCCCCCCTTTTTTTTTCTTTANCNTNCGCCCCCCNTTTTTTTTTGTGGGGGGGGGG
GGTGTTTTTCTTTNNNCAAAATAAATGNAGGNGGGGGGGGGNTTTA
Sequence 874
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TGAGCCAACAACAGATTTCTTGGTTATTGTGCTATTGCCACACCTGGGTTGGTGGTTTTA
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GTCATTTGGGGTTTTTGCAAAAGTTGTGCTTCTCAAGCAAACCGATGGG
Sequence 875
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GCTGGTACCTGCCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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Sequence 876
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TTACAAACCTCCCTACTCCTCGAAAATTCCTTGATACCTCTCACTATTNTACTGCTGGAA
GCTCAAGTGTGAGGGAGATAAATCTGCNGGACATNAAGGAAGATTTAGAATTGGATCCAN
AGGAAAACAGCACCCTGTTTATGGGTATCCTCATTAAGGGC
Sequence 877
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AAAAAGTGGTAAAAGCCTTGGGGGG
Sequence 878
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ACAAGTAGACATATGCAACAGCAGCCTGTGGTAGCTGTTCCTCTTGTTATGCCAGTTTGT
AGAAGGAAAGAGGATGAGGTGTCTATTGGAAGTGCCCCCTTGGCAAAGCAACAATCATAT
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TTCTCCTGGATAATATCCTGAAGACTATTTTCCAACCTTGGTTCCATTTTTCCANGGTCA
CTTTTCA
Sequence 879
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TCCAGGCTCTGAGTTTTTACTTTTTCTACTATATTGCCATGCAAGTAACTTTAACTTTGC
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TTCACCAAACCTGCTCAAATCCTTGCTGAACAGGACGTAGCAAGGAGTTGACTTTCCAAT
GGTGGGAGGTTCAGAGTACCTGCCCGGGCCGGCCGCTCGAGGGGGGGGCCCCGGGTACCC
AGCTTTTTTGTTCCCTTTTAGTGGAGGGGTTTAATTGCGGCGCTTTGGCGTAAATCATGGG
TCATTAAGNCTGTTTTC
Sequence 880
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CTTGGTAATATCATTCAGGTGGACTTTGGCATCATAATCAAATAATTTGATTTCTACTAA
CTGTTGAAGAACTTTGTTAGCCACTTTGCTTATTCATTACATTTTGGGTGATCTTAAGCG
CACATTAATTACCCTGTCTGTTTAGCATGTCTTGCTGTTCATCTTGGAATTATTTGTTGT

Table 1

TTAGGGACACTTATCTAGTTTCCAGCAGTCTGCTTTTAACCGGGTGGTGnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCTTATCGATACCCGTCGAC
CTCGAGGGGGGGGCCCCGGTACCCCAGCTTTTTGTTCCCTTTTAGTGGAGGGGTTTAAAT
TGCCGCCGCTT
Sequence 881
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ATACTGCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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GCCGCTCTAGAACTAGTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnCGGTACCCAGCTTTTTGTTCCCTTTTAGTGGAGGGG
TTAATTGGCGCGCTTTGGGCGTAATCATGGTCATTAAGNCTGTTTCCCTGTGTGAAAAA
TTGTTATCCGCT
Sequence 882
CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGACAACAAGA
GCATTTTAGAGTAATTAATTTAATAAAGTAAATTAGTATTGCTGCAAATAGTTAAATTAT
ATTTATTTGAATTGATGGTCAAGAGATTTTCCATTTTTTTTACAGACTGTTCAGTGTTTG
TCAAGCTTTCTGGCATAAATATGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGCGTAATCATGGGTCATTAG
CCTGTTTTCCTGTGTGGAAATTGTTATCCCGCTCACCAATTCCACACAAACATACCGAAG
CCCGGGGAGCAT
Sequence 883
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACTTTAAACTGTATTGTATTC
ATGTTGCTAAACAATATTGGCCTTCTCGATGATTTTATTCATGTTGCTCCAAAGTTAAAA
CCCTGTAGAACTAAGTAGGTGAAGAGATATTTTGTATAAGTGCCACAGAAGAGAAAATAT
AATAAAATTAAATAGTGAATTGAGCATCACTAGAATAAAATAAAATGAGTAGGCATTCCT
AAGATGTGAAATGATCACCTAAGATATACATGCTCCAACCATATTGATTTTAGAACAAAA
CACAGCAGCCCATAACAGTTTGTGGCCTCTACTAACTGTCCTCTGCTGTCCCATCTAGAG
GTTATGTTTCTCTATTTTTAAAATAAAATGTAGTTAAATTAGCCTGACGGATGTTTTCCC
CTCTATCCCTTAT
Sequence 884
TCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTG
GAGTCAAAACGAATCAGTTTTATATAATCAATTATTTTAGACTATCCGAAGCATAATGCT
TAAGTTTAAAAGAGGAGACAAAAATAGGAGGACAAGATACTTGAGAGGCTGTGGCACTAG
GACTGCTTGAGAGCCCAGGAGTTGGAGGCCAGCCTGGACAACATAGCAAGACCTCATCTC
TGGTCAGACATGATGACGGTGGCTTCACCCGGGGGTCTCCGCACAGCAGCGGCCTCGGGT
AAGCAGAACCTCGCTCCGGGGTTTACAAATCCTTCTCCCTTCCCCACAGCACAACACCCG
CGGCTCCCCGCGTACCTCGGCCGCTCTAGAACTAGGTGGGATCCCCCGGGCTGCAGGGAA
TTTCGATTATCAAAGCTTTATCG
Sequence 885
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACA
TAATGCAGGATCTGATGTCCTCCTCTGGTAAGCAGCATGCACCGCATAAACAGGTCCTTC
ATGGCCTTGAAGATGCACTGCTTTTAAAAGCTGATTATCCTCTATTTCCCAGTGAATCAC
TTGATTATCAGATCCTTCCAGAAAACTAATTCAAGTAGAAGGGGGAGCCATCCTGTTTAC
AAATCCACTGTATGCAATTGACTCGGGCCGGTGTGACCATTCAAGTTGGTAACAACAACC
CTTTTCAGGGGGTCATAGAGCACCACGGAGCAGGGACGTGCCAAAGGCCCAGAAAGTCCT
CCCCCGCGTACCCTCGGCCGCTCTAGAACTAGGTG
Sequence 886
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGACATTTC
TTTTCCAACACAAGTGAGGTGAACAGCCAGCCAATCCTGAGTATTTGAAAAAATGTATCT
GCAGCAGGTTATGATCAGGGAGCTGTATTTTCAAGTAGTAACAGCACTGCGAAGAGCAAG
CAATGAAAGGCCAGCATTCTTAATTGGAAAAGAAAGAAGAGGAAATTTCCCTCTGCAAGG
GGGCTAATTTGCCAACTGGTGATATTGTTCAGTTCAAGGGAATGAAGAATTCAGAATAAT
TTTGGTAAATGGATTCCAATATGGGGAATAAGAATAAGCTGAACAGTTGACCTGCTTTGA
AGAAACATTACTGTCCATTTGTCTAAAATAATCTATAACAACCCAAACCCAATCAAAATG

Table 1

AATTCAACATTTATTTTCCCC
Sequence 887
ATTGGTTCTCCCCGCGGTGNCGGGCAGGTACAACTTTAAACTGTATTGTATTCATGTTGC
TAAACAATNTTGGCCTTCTCGATGATTTTATTCATGTTGCTCCAAAGTTAAAACCCTGTA
GAACTAAGTAGGTGAAGAGATATTTTGTATAAGTGCCACAGAAGAGAAAATATAATNAAT
TTAAATAGNGGAATTGAGCATCACTAGAATAAAATAAAATGAGTAGGCATTCCTAAGATG
TGAAATGATCACCTAAGATATACATGCTCCAACCATATTGATTTTAGAACAAAACACAGC
AGCCCATAACAGTTTGTGGCCTCTACTAACTGTCCTCTGCTGTCCCATCTAGAGGGTTAT
GTTTCTCTATTTTTAAAATAAAAATGTAGTTAAATTAGCCTGACGGGATGTTTCCTCTCT
AT
Sequence 888
CCTATAGGGCTNTTTGGNGCANACCCCGGTGGCGGCCGCCCGGGCTGGTACTTCCTTCTT
TTTTATGACTAAATNCTACTCTATTGTATGGACATGACACATTTTGTTTAAATTGTATAG
GTATGCCATACTTTAAGTTTGTTCCATAAATCACTTCATTAACATTTGGGTTGCTTCCAC
TTTTTGGGTAATTAATTAATTTAATTAATTTATTTATTTTGAGATGGAAGTCTCGAAAAA
AAAAAAAAAAGAATGTGTATCTACCCGCAGTTGTCAGGCGCAGTATCCATATATGTCATT
TAGGTCAAGTTTGTTGNTTTTCAACTCTTCTGTATTTTTACTGACTTTTTTGGTCTAAGT
TGTTTAATCATTCACTGAGACAGGTGTGTTAAATCTCTCATTGGGGTGATGATTTATCTA
GTTCCCATTTTAATT
Sequence 889
AGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTCGACCGCGATGAT
GTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGC
TACGAGCGTNTCCTGAAGTATTGCAAAACCAAGCNGTGGGCGGCNCGNTCTTAGAAACTA
GTTGGNATCCCCCGGGGCCTGCCANGGAAATTTCCGAATAATTCAAAGNCCTTTATTCNG
GATTACCCGGTTCGNACTCTTNGTAAGGGGGNGGNGCNCCCCGGGNTTACCCCCAAGCNT
TNTNTTTGGTTTTCCCCCCTTTNTAGGTTNGNAGGGGGGTTTTAAAATTNTGGCNGCCCG
NCNTTTNGGGTCGGNTNAAATTNCAATTGGGGGATNCNANTAAGGCNTTGGTTTNNTCCC
CTTGGGTGGGTTGNAAAAAATTTTGGTTTTTAATTCCCCAGCNTTTCCAANCCAAAATTT
TTCCCAACCAANCCAANACCNATTTAACCCGGTAAGGNCNCCCGNGGGGAAAGNNCCAAT
TTA
Sequence 890
GGCCGCCCGGGCAGGTCGCTCGTGATCTAGATAGTGAGCGGACGCGTGGGTCGACTCAAG
ACTTTTAAAGATTTATCAAAATTTGGTGAGCCGAATCTCAGAAAATTGGTGAATTCGGTT
AGTTCCCAATAGGCCGCAGTAGTAATAAGTGGAGTGTTCGGGATATAGAAAAATTTTCAC
GAATGGAATTAAAATTTCTAGGCGAATTCAGTGAGTTCCCAATGGGACATGATTGTATGA
GTGAGCTTTTCAATATATAGCAACATTTTAGGTTCAAGAAACTTAAGTATCATGGTGAAT
TCAGTAGGTTCCCAATAGGATTCGCATGTAATAAG
Sequence 891
CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAACATGTGCCACGTCACCACACAAAACCAA
AGTCTGCTCAGAGAGGTGGGCTATGGTGTGCAGGCTGCAACCTTTCTCTGCAATTGTTAA
GTCTTCAAAAATCTGAGTTCCTCACATAAAATTCTGTGCTGTGGCCAGAGCTCGTTTTAC
CATTTTCTTAGATTGGATCACTTTTAGGATCAGCTTCGTTGTTCTTTGCGTAGACAAATG
ACTCTCACAGCTTTCTCCAAGTGTNCCAGAAGCACTAACTTACTGAAAATAGAATCTCAT
CAAAGCTTAACATATTCACTCTGAAAACAGCGGANCTGCTGGGTCGCTTAAGGAAAGCTG
ANAACCTNAAACCTGTGGAAGGAAAACCAGTGACCACTTGGGGCCTTATAAAAGTTTGAT
TGGCAGGTGANGAAGGGGATCTCAAGAGGAGAATCCCNAATTTCAAAAGACATGGGAGAT
TTTGTCCCTAAATGTTTTATACTAGTGCTCTTGNNAAATGGAAAACCCT
Sequence 892
CCGGGCAGGTACAAACATCCACACCAGAAGAGCAAGACTTAGAAATGGCATCAGAGGGAG
AGCAAAAGAGGCTTGAAGAATATGAAAATAACCAGCCACAGGGAGAGAATGGGTCATAAA
ATCAACCCAACTGGCTATCAAGAGAATTATACCTTGCAGAATGGCACCTTTGGTATTAGC
GTACCT
Sequence 893
AGGTACCCCAGCCACATGGCCTTCATCCTTATGACCTAGCAGGCAGAACAGGGACCAAGC
AGCTTCTATTTTGTCAAACTCCTTTGGACAAATATTCAACATTCAACAACAAGCTTTGTA
AACCTAACGCTAAACAAGTCATGGCAAGCAAACTGGATTTTCTTAAGAAATGAGGAAAAG

Table 1

TGCAAGTGATCTCAGTACCTGCCCG
Sequence 894
AGGTACTTCTTTGCAGTATACAAGGACTAGCAGTTAATATTGACCCAATCTTATATACGT
GGCTCATCTATCAGCCTCAGAAACGAACGAGTAGACATATGCAACAGCAGCCTGTGGTAG
CTGTTCCTCTTGTTATGCCAGTTTGTAGANGGAAAGAGGATGAGGTGTCTATTGGAAGTG
CCCCCTTGGCAAAGCAGCAATCATATCAGGCCTCTGAATATGCCAGCAGCCCTGTAAAAA
CAAAAACGGTAACAGAATCCCGTCCATTGTCAGTTCCTGTTAAAGCCATGTTGAATATAT
CTGAAAGCTGTAGAAGTCCTGAAGAAAGAATGAAGGAATTTATTGGA
Sequence 895
CCGGGCAGGTACTTACTTGATGTGACTCTCCTCTCATGCCTGGGCCCTGCTTACAGGTGT
GATTGTGACACATAGCTTGGCCTAGCCCCTAGGTTATGTTACTCTCCTCTTATCCTTCAG
TTATTTTCACAAGGGGCATTGTGACATATTGCTGGACTGGGAACCCAGGTGATGTGACTC
TCCTCTACTGCCTGAAATACAACCAAAAAAAAAAAAAAAAAAAAAAAAGGTCCCT
Sequence 896
NGNGGCGGCCGAGGNACNNNNGNCANTTGNTGGGGGGGAAGNAAAACCCCCCCCCCNCAA
CANAGGCAGNNCCAGANNNCAACNNTTTANCAGANGGGGGGAAGACCCCCNACAAAAGGN
GCAGCCACAGNNCGNNNGANCNCCAGCNNGGNCCCCNGACCAAAAGNGNACCNGTTTTNN
CGGCCNTTTTTAGAACGNGGGGGGNCCCCCCCC
Sequence 897
CCGGGCAGGTACGCGGGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAG
AAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAAT
GTGATGGTGTTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCC
AGAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAAC
CTGCAAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGGCTTTCCAAC
TTCCAGAACTGTGAGAAGTATATGTTTGTGGTTTAGTCAATGGTCTATGGTAATTTT
Sequence 898
AGGTACGCGGGGGACGCGCGTCTGTGGAGAAGCGGCTTGGTCGGGGGTGGTCTCGTGGGG
TCCTGCCTGTTTAGTCGCTTTCAGGGTTCTTGAGCCCCTTCACGACCGTCACCATGGAAG
TGTCACCATTGCAGCCTGTAAATGAAAATATGCAAGTCAACGAAAAAAAAAAAAAAAAAA
AAAGTACCTGCCCG
Sequence 899
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AGTGTAAGTCTTTATGGCTTGCATGGAACCAGGCAGGCTACTGCTTTCTGCTGTGTGGCC
TGGATCCTTTTGTTGTAGAATAAATAACTGCAATAGGAAAGAAACACATATATAATTTTA
TTCTCCATTCACAGCCCTTTGGGTTATAGTCTTTTCCCATATAGCAGATACTATACTAAA
AAAAATTGGGGTGGAGGAATCTTCACTGACATCACAAGGTGATTTTTGAATCCGACTTTT
ACAGTCTGAAATTCAGACTTCCTGCCCTACTGCAATGGGAGTAAAAACCACCTGAACC
Sequence 900
AGGTACGCGGGGGTGGCGCCAGGGATTTGAACCGCGCTGACGAAGTTTGGTGATCCATCT
TCCGAGTATCGCCGGGATTTCGAATCGCGATGATCATCCCCTCTCTAGAGGAGCTGGACT
CCCTCAAGTACCTGCCCG
Sequence 901
AGGTACAACAGTTTTTTAAAAGATTTCACTGACATTTGCAACAATTTTTTTTCTAATTTCT
TTTGGTGCCATTTTAGTAACTTAACAATTGCTTTAATAGACAAAACTCAATCATGCATGA
TCAATCACAGGTGAGAAAATAGAGGCGTGCTTACTAATGGCAGCAAAAGGCTTCTGTGGG
GGTGTGCGGGATGGAACAGCTAGCTAGCTAGAAAGGGGCTTCTTTATAGAGGGACTCCAG
TGTCAGGCAGGGGCACTGAAATCTAGGGGTCACCAAGGGCCACAGCACAGGGGACTGAGG
GAGAATCCAGTGGCTGGAACTCTCCTCACC
Sequence 902
ATGACATGGNTCAGCTTCGGTTTAAAAAAGGTCAGTGTCTATCTGGAAATTTCTACGTGA
GAGGTGATAGGAACCAGAGTTTACTTCTTCACACAAGAGGAACTGGACACGCATTTTCAC
CACTTGCTGGAC
Sequence 903
AGGTACGGCCACAAGAGGGTAAGAAATTATCGCATGGTCTAATACCAAATTTTCCCCCAA
ATAGAACCTACCAAGAGATCGAGCAATCAAAGCGTTATCTGTCAAAGCAATTCGCTTCTT
ATTGATTTTGCCATAACCACGCTTGTAGATTAGTTCATTTACTGACTTCAGATTGGGGTA

Table 1

CCTGCCCG
Sequence 904
GCCGAGGNACGNNACNCCTCGTTCAGGGGANAAAAACCCANGCGNCCCCACGCCCNAACA
NGNNCCANAAGCTGTCCNCCANGCNCCCAGCCNGCCNCACNGNACAACGANNNCNCAGCC
CNGGANNGNNCNNCCACAGANCNGCNCANCAACNCNGGCNCCNGACCCNCNCTCCTTTGT
GACCCNAGCCCANNCCCACCCCCNGCGAAAGNGACCACAGCNNCCACCANGGCAAGGGGN
NAGGAAGGNCCAAAGGGCNCNNCAGNGGGNACGNNCAGCNGGAGNGGCANCGAANNGNGN
GCCNNCNCAGNANNGGGCAAGGNAAAGAGC
Sequence 905
CCGGGCAGGTACTCCCTCCAGACATCCGTATATTGGCCTGGGCCCCTGTAGAACCAAGCT
TCAGTGCTAGGTTCAGCTGCCTTGAGCGGACTTACCGCTATTTTTTCCCTCGTGCTGATT
TAGATATTGTAACCATGGATTATGCAGCTCAGAAGTATTGTTGGCACCCATGATTTCAGG
AACTTGTGTAAAATGGATGTAGCCAACGGTGTGATTAATTTTCAGAGGACTATTCTTATC
TTGCTTCAAAGTACCTCGGCCGGCTNTAGAAACTAAGTGGGATCCCCCGGGGCTGCAGGN
ATTTCGATATCAAGCTTTATCNGATACCCGTCCNACCCTCGAGGGGGGGG
Sequence 906
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGGAGGAGTGAGTCCCTATGCTGACCCCAATA
CTTGCAGAGGTGAGAGAATGCTCTTTGGTTGTGCTACAAGTGCCCAAGGCCCAACAGTCC
TTTTCTCTACAGCTTCTCCTCTCCTTGCAGGTGATTCTGGCGGCCCCTTGATAGTTCACA
AGAGAAGTCGTTTCATTCAAGTTGGTGTAATCAGCTGGGGAGTAGTGGATGTCTGCAAAA
ACCAGAAGCGGCAAAAGCAGGTACCT
Sequence 907
CCGGGCAGGTACAAAGTGAGGAGGCAAGACAGGTGCACAGAGCATAGCTTTGTCCCATCT
CAGGAACCCTGGGTTCCACCCCAGCTCCTGATCCCAAGAGATACGTTTCCCGGGACTCCA
AGGGAGAGCTGAAACACTGGTCAAGCTCAGAGCCCTGAAGCTCTTTCCCACTCCCCGCGT
ACCTN
Sequence 908
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAATGAGGCTGTATTA
AGGAGAGTAACAAGTTCTAATTCTTGACCCATCAAATTCTTAAGGTGAAGCTGAGGACCA
GGAAGAGAAAGAAGATGCTGAGAAAGAAAACATTGAAAAAGATGAAGATGATGTAGATCA
GGAACTTGCGAACATAGACCCTACGTGGATAGAATCACCTAAAACCAATGGCCATATTGA
GAATGGCCCATTCTCACTGGAGCAGCAACTGGACGATGA
Sequence 909
CGGGCAGGTACGCGGGGGAGTCCCCTCGCCAGATTCCCTCCGTCGCCGCCAAGATGATTG
TGCGGGGCGCCCTCCGCCACGCAGCCGGCCACCGCCGAGACCCAGCACATCGCCGACCAG
GTGAGGTCCCAGCTTGAAGAGAAAGAAAACAAGAAGTTCCCTGTGTTTAAGGCCGTGTCA
TTCAAGAGCCAGGTGGTCGCGGGGGACAAACTACTTTCATCAAGGTGCACGTCGGCGAAC
GAGGACTTCGTACCCTCGGCCGCTCTAGAACTAGTGGGATCCCCCNGGGCTTGCAAGGAA
TTCGATATTCAAGCTTTATTCGATACCCGTCGACCTCGAGGGGGGGGGCCCGGTAC
Sequence 910
CCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACAGAGGTTACCCAGTGTTGCATTACTTT
TAAATGATCTTAAGAAGCATACAGCTGATGAAAATCCAGACAAAAGCACTTTAGAAAAAG
CTATTGGATCACTGAAGGAAGTAATGACGCATATTAATGAGGATAAGAGAAAAACAGAAG
CTCAAAAGCAAATTTTTGATGTTGTTTATGAAGTAGATGGATGCCCAGCTAATCTTTTAT
CTTCTCACCGAAGCTTAGTACCT
Sequence 911
AGGTACCAACTGGCCTCATCCTATATTCACTTTCGGCCCTGGGACCAAAGTGGATATCAA
ACNGAACTGGNGGCTTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTNTGA
AAATCTGGGAACTGGTCACTNGTTGTGTGCCCTTGCTGG
Sequence 912
AGGTACCACCCATGTGNAGGAGACTGCAAGNGAAGCTGTTATTCAAAGTAAGAACAGTCA
GCCTTGTGCTTGAGTCCTGTTTTATGCTTGCGTGTTTCATACCAAAACACAAAGGCAAGT
CTTCATATCAGCACTTTAGTCTTTGATATCCAAGTTAGCTNGACTACTNGTACCTNGNCC
GGGCGGCCGCTNTAGANNTAGTGGATN
Sequence 913
CCGGGCAGGTACTATAGCTGTAAGGAGAAGCTGAGAAATGATACCCAGGAGCAGCAGGCT

Table 1

TTACNGTCTTCAGCCTAAAACCTAAAAAAAAAAAAAAAAAAATTTAAAACAGCTATTAAA
CTGAAAGCATCTGTAACAAAAAAAAAAAAAAAAAAAAAAGTACCT
Sequence 914
CGTAATACCGACTCACTATAGGGCGAATTTCGAGCGGCCGCCCGGGCAGGTACAGGTCAG
AGTCTTCTTTTCTTTTCTTTTTGAGATGGAGTCTTGCTCTGTTGCCAGACTGGAGTGCAG
TGGTGCGATCTGGGCTCACTGCAATCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTC
AGCCTCCCGAGTAACTGGGACTACAGGTGCGCGCCACCAAGCCCAGCTCATTTTTGTATT
TTTAGTAGAGATGGGGTTTCACGATGTTGGCTAGGATGGTCTCGATCTCTGGTCAGAGTC
TTTTCTGTAAATATCCTTGGTAAAGAAGCAATTTTAGACTGTAGCTGTTGCAAATGCTTT
AAGGAAGAAGCAAAACAACTGTCAGT
Sequence 915
AGGTACCATCGATCCTAGTGGGACGCGATCCAAAAATATGCCTATTAAAGATAATTGCTT
TGGTTATGTTTAATGGGAAAGNCTATCTGTTTGGCTTAAAAAGGGGACAGATGTTCTGCC
ATCACAAATTGACCAACANAATTNTTGTTTCTCCTGNNACTCCAGTAAGAAAAGACNCGT
TTACAGACAGTGGGGTTCAAGGNNCAGNCACAGAA
Sequence 916
ACCGCGGTGGCGGCCGAGGTACAAAGTGTCTTTNTGTCCTGTGTTTNANCCNTTTAACAT
ACAGAACCTAATTTTACTGGCATTTTAATGTTAATTCTCCACTCGAAGGTGAACATGGGA
TGTTTGTAACACATATGTTTTGNTTATCAAGCACACATATGACCCCCTTTTCATGAATAT
TCATAGGTTCCC
Sequence 917
ACCGNGGTGGCGGCCGAGGTACACTTTGCCTGCTCCAGCCCTGGAATCAGCCATTGCTGC
TGTGCTATCCTTGACAGAACTATAACCTGAATTTAACAAGGAGGAAATATCAGGCAAACA
CAAATGGAGTGACATTCTANTAAACAACTTGATCAGCACTCTTTAAAAATGAAAGACAAA
AGAATGACTTGAGGAATGAGTTTC
Sequence 918
CGGCCGCCCGGGCAGGTACGCGGGGCAATTTGGAGAAGATAGAAGTTTGAAGTGGAAAAC
TGGAAGACAGAAGTACGGGAAGGCGAAGAAAAGAATAGAGAAGATAGGGAAATTAGAAGA
TAAAAACATACTTTTAGAAGAAAAAAGATAAATTTAAACCCTGAAAAGTAGGAAGCAGAA
GAAAAAAAATNATTTTTTNAANNNNAAAAGTACCCTCGGCCCGCTCTAGAACTAGTG
Sequence 919
CCGGGCAGGTACTTCATGAAAACTACCATAACGTAAATTCCCCTTCTCTCCCCTGGATGG
AAGTATCAACTTGGAAGTTACTAGGAAAAGGTAAGGGAACTGACTGAGGACACTAGGCTT
ACCTTTTAATTTCGAAGAGTAACTGGATTATTTCAGGTTGCTACGATTTCTGCAAACGGA
GACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAAAGTTGGAAGAAAGGGTGTC
ATCACAGTAAAGGCAAGTGTGTTTGTATTTTTAAAGATAATTTTGAGTTATCTTATGATC
AAAAGTTTGAGTTATCTGATGATCAAAACTGAATTTT
Sequence 920
AGGTACGCGGGGCCGTAACTTTTCTATCCGTNCGCGTCAGCGCCTTGCCACCCTCATCTC
CAATATGNCGTGGTCCGACCCCCAGTGGCACTAACGTTGGGANCCTTCAGGGCGCTCTTC
CCAAG
Sequence 921
AGGTACTTTTTTCCTTTTTTTTTTTTTTTTTAAGTGCGTTCATTCTCACTGCTGTTATTGT
TTTCTGACAGCATGTCTGAACCAGCTAAGTCAGCTCCTGCTCCGAAGAAGGGTTCCAAGA
AGGCTGTGACCAAGGCGCAGAAGAAGGATGGCAAGAAGCGCAAGCGCAGTCGTAAGGAGA
GCTACTCCGTGTATGTGTACCTGCCCG
Sequence 922
CCGGGCAGGTACCCAGTTCCAGGCCTTGACTCTTGGATGGCATTTCTGGACTTGCCCTGG
GCCAGAAGGAAGCTCACTGCCCTGAATGGAGAGTTCCAGGCCTGGCAGCATTCACCACAA
ACTGACTAAAGAGGCCCTGGGCCTGAAGTGAACATCAGTGGTAGTCTGGCAGTATTCCTT
ATGGACCTGTGGTGGTGGTGGCCATAAGGGTGAGGCTCCTCTGCCAGTGGAAGGGGGGAGG
GAAGAGTAGGAAGGACTGCATCTTGTNAGTTTAAGGTTCCAGCTCAGATGCAGTAAANTA
GAGCATGNCCGGNNGATTTCTAATATTTTTTACTTNNAGTCCCTGGCTCCTGGAAA
Sequence 923
GGAGCATAAAAGTGTAAAAGCCTGGGGTGCCTAAATGAGTGAGCTTAACTCACATTTAAT
TGCGTTGCGCTCACTTGNCCGTTTTTTCAGTTCGGGAAACCCTTGTTCGTGCCAGCTTG

Table 1

Sequence 924
AGGTACATATCACAGGATTAAAACTCCAGTTAAGCAACTGAGCTAATCATTGAAGTAAAT
TAAAAATACCAAGCTTCTTTAACCTATCAATGCTGTTTTAGAAGCATCATCCGAACAAAT
AGAGATTTAGTTATAAATTGCTGGGCTACATTCTGTGATGAGAATTTTGCTTAGTACCAC
TAGAGGAAGAGAGACTAGAGGCCCAAGAAGANGGTGAAAGTAGAGCTATGTGCCCAAGAA
AAACTTGTAGAGATGGAATAAGAACTGAAACAATAGTAGAAACACTTGCCCTGAAGAAAA
AGGATGGAAAAATGAAATAGATTGATTTTTAGCTGGTAGGGAAGAAAGTTAACATAGTCT
TAGTCGGTTGTGTTTTCTCAAGGAACTGAGAAGCAGGATTAGTTTTAGAAAATTTGAAGA
AGGTAGTGAGAGGNTGAAGCCAGCTGGGTCGAGTGAGGNCTTGGANAACTTTTTTNTCGN
ACCTGCANGCCCTTCTTANACCCTACCTTTTTTTTNGG
Sequence 925
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTNTNTTTTTT
TTTTTTTTTTTTTTTNNAAGAACAAAATGTTTATTTTTTGGATATAGACATTTAAAACAT
TCATNTCCAAGAACAGCTTCAATCAGGTATACAATAAGAAATAGACTTTAAATCCTAATC
AGAAAAGGNAACAGAATTTTTTTGAATGCTGCTGTANACACTAGTGTTAGAAAAAAAAGT
TTATAAATGGTTTTGCACCAAAAAAATATGCAAAGAAACTTGAAA
Sequence 926
GGCGGCCGCCCGGGCAGGTACTACGAGTGAGTGAGGCTGGGAGGAACACCAACCTAAGCC
AGGGTAATGAGGGGGGACTCTTTACCCAGGACCCTGCCCACTGGCCTTCCTCTCTTCCAA
ACACAGGTTCCGGCATACCCAGGTGTGCAAGGCCTCAGCACTGAAGCATGGNGGGATCT
GGCACAAGACCCAGCCTGGACAGAGATCTTTGGTGTTCTCTCTGNGGCCACCATCAAGTT
TTGAGATGCTGAGCACAGCCCCACAGAGTCAGCTCTTCCTGGCTCTGGCTGACAGCAGTA
TCTCCACGAAGGGCACAAAGAGNGGCACCTTTGTCATGTATAATTGTGC
Sequence 927
CCGGGCAGGTACTACGAGTGAGTGAGGCTGGGAGGAACACCAACCTAAGCCAGGGTAATG
AGGGGGGACTCTTTACCCAGGACCCTGCCCACTGGCCTTCCTCTCTTCCAAACACAGGTT
CCGGCATACCCAGGTGTGCAAGGCTCAGCACTGAAGCATGGTGGGGATCTGGCACAAGAC
CCAGCCTGGACAGAGATCTTTGGTGTTCTNTCTGTGGCCACCATCAAGTTTGAGATGCTG
AGCACAGCCCCACAGAGTCAGCTCTTCCTGGCTCTGGCTGACAGCAGTATCTCCACGAAG
GGCACAAAGAGTGGCACCTTTGTCATGTATAATTGTGCCCGTCTTGCCACACTCTTTGAG
AGTTACAAGTGTAGTATGGAACAAGGTCTGTCCT
Sequence 928
ATTTTTTTTTTTTTTTTTTTTTTTGGCNGCTTTTCCTGATTTTTTAACTACTCATACAATA
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AAGGATCTTTTGATATTTTGGCAGTTNCTCTCACTAAAAGAAGTTNCATTCANCAGATTA
NAATGATTCATGAGAAATTCTTGGNTAGTAAATATTTAATCCAGATTTTATAATTGCCTA
AATCTCTTTATAGGTTATTTCTTGCAATATTTCAAGATCCTGAGTCAGCCATGCTTATAC
AAGCAAACTTTTATTTA
Sequence 929
CCGCGGTGGCGGCCGCCCGGGCAGGTACTACCTCCTGGCAGGAGGCCAACCAACACAAAA
CTAGTGCAATAAACAAAACTACAACTAAGGATCCTCACAAGAGCCCATTTCACTCCCCTG
CCACCTCCACAACAGCAGGTGCTTGTATCCATGGCTGAGAGACCTGAAGACTTTCACATT
ACAGGACTCTATGCAGACTCCCCCAGTACCT
Sequence 930
CCGCGGTGGCGGCCGAGGTACTTCTATGTCATCATGGGTCTCAAAGGTGTTGTCAAAATT
GAAAAGATACTCAAACTTGTCACTGGAGATGCTGCAATCTATGACTGTTTTTCTGCTTGT
ATTGATGATTATGAATGGCAGCTGAATGGCANAGTTCAGAGCCGGCGGNCCCTGGGTTTT
GCTGCTTNATTTTTGTNAATTTTTTTGTACCCTGCCGGGGNCGGCTTTTTNNAAAAAACT
NGGNNCCCCCCCNNGGGGNNNGGGAAGNANTTTTTATTTNTNTATTTTTTTNNTCCCCCC
CCCCCCTNGGGGGGGGGGGGGGNGGNCCCCCCCCCTATTTTTTTTTTT
Sequence 931
GTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGATTCT
GATTCACTGATAATCGACTCATCTGTTACTAATACTTCCCCATCTGGCTTTCTGCGCAGC
ACCTTTCTCTTCATCACTGGCTTTCGGAGTCTTTGGGGAGGGCCTCAGAGACTGTTTCTG
AAGGGACATTACTTTCTACATGTGGGTACCT
Sequence 932

Table 1

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGCAATGCCT
CAGGTTGCACCTGACTTATATGCTGAACTACAGAAGGCACATTTAGTTTTATTCAAGGGT
GATTTGAATTACAGGAAGTTGACAGGTGACAGAAAAATGGGAGTTTTTCTGTTCCATTTC
ATCAGGCTCTGAATGGCTTCCATCCTGCACCACTCTGTACCT
Sequence 933
GTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCGGGCTGGCTCC
TCCAGTGTCTTCTCAGTCCTGAGCAACAGTGCAGAGGTGAAACGGGAGCGCCTGGAAGAT
GTGGTGGGAGGCTGTTGCTATCGGGTCAACAACAGCTTNGGACCATGAAGTACCTGCCCG

Sequence 934
AGCTTTACCGCGGTGGCGGCCGCCCGGGCAGGTNCTTTCAAACAACGCGGTAGGCCTTCC
CTTTNGGGTCTGCCATGACAACGATACCCCAGGTGGCAATGCTTGAAGCCGATGACCATC
TGCGTAATGGNCCATTGGACTNTGGGGGGTATTCCATCTTTAAATGGGCCTTTNCGTGCC
ACCCATTACCTTNGGCCCGCTTTAAAAACTAAGTTGGGATCCCCCCGGGCTTTCAANGGA
AATTTTNGAATATTAAAAGCTTTATTNCGAATTCCCCGGTCGGAACCCTTTTNAAAGGGG
GGGGGG
Sequence 935
TAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGTATCATCGC
AGTCTTGCTTTTTTGAGTAATGGATTCCTAGATTCTATGAGGATACCACAACCACTTTTA
AAGAGGTTTCTAAGGCCAGGTGCANTGCTTACGCCTGGGAGACCAANGTGGGAGGATCAC
TTGAGCTCAGGAGTTTGAGACCAACTTGTACCT
Sequence 936
NCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACAAACACGAT
CGCAGATCCAGGTTTCTCAAACTGGAGCATCTGCTTAATTTTCCCATAAAATCAGTCTTA
TTCTTTCTGACAGCTCTGAGACTCCTCCGGCCACGACTAGGTGCTGTCCTGGAGGAAACG
GTGGAGGA
Sequence 937
AGGTACGGGAGAGACTCATAACTCTCCAGGCCCAGTGCTGGGGGAACCCCTCATGGGAGC
AGCTGTAATGAGGCCTGGAAACTGGACACTGCTGAGCCCTGACATCCAGACCTCAATGCC
CTGACTCAGCCCATGGCAGCGACCCCTTCAAACAGGCTCCATGTGGGCCTGTAATCAGGA
AAGACTAGAGCATCCAGGAGTGGAGATTTGATTCTGAGATGCTGGGAGTTGTTCCTGGTT
CTTGCTCCTGTCTGGCTGGTGCTGACAGCCAAAAGCGGGGAGTTGTGTGAGCTTTGTCCT
TCAGCACTAGAGGCTTCACTCAACCCATGAGAAGGGGATGCCCCAGGCTTGCCCATCACA
AGCACTGGCCAAGCTGACTTCCCGCTGCTGAGGGAAAGA
Sequence 938
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCCTCTGGATTCACTTTTGATAATT
ATGTCATGAATnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTCGGCAATCA
GTGGNAGTGGCGGTGGCACACACTACGCATACTTC
Sequence 939
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGGGCCTGA
GAATTTACATTTCTAGCCAGCTTCTAAGTGATGCTGATGCTGCTAGTTTGGAGACCACAC
CTTAAGAACCACTGCTGTTGGTCTTGTCTGCACAGTAGATGCACCAAGGCAAATGTTTAG
AAGTACCT
Sequence 940
CGCCCGGGCAGGTACTGCTGACTGCCCTGGCTGGTCAGTGGGGCAAAGCCAGGCATGAAG
AAGTGCAGGTAGGGGAATGGATGATGTTCATGGTCAGCTTCCACAGGTCAGCATTCAGC
TGGCCTGGGAATCGCAGGCAGGTGGCAACCCATTTATGGTGGCAGATACTAGGAGGTTTA
GGTCACTCTAGGTGGGCATGGGCAGCTTTAGGGTTCTGAAGCAGATGTCATAGAAGGCTT
CATAATCAATGCAAAAAGTCTCATCTGCATTTGCTATGAGACTTGGAGGGTGACATTGTG
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AANCCTATTTAAAATGGGTCTGAATAACTGGTGATGAATTTACTTGTATAATCAGAATTC
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TTNNANNNNGTCCCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCTNGAANGAATTC
NATATCAAGCTTATCGATNCCCGTCGACCCTCGANGGGGGGGCCCGGTNCCCAACTTTT
Sequence 941
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGAGACAATAGC

Table 1

ACCAAATTCAACAGAGAGAAAGAATGAGTGAGAGAGCACTTTACACCAAGGCTCTGCACA
TAATTGGTGCAATTTGAAATTGAATGGCTCAGAAGACTGCTCTGTGAGGAGCAGATTGGA
GAGGATANACTCATCTTGCCGCGTACCT
Sequence 942
CGCCCGGGCAGGTACTCCCCTCCCCAAATAGAAACCTCAAAGACTGATCCATTTCCCCTA
GGGCCTGGGCCAGGAGTAGCTCACTGCTCACTGCTGAGGAGAAAGGCACAAGATATAATG
TCATAAGAGCAGGACAGTGGCTCACCTACAGAGTTCCCTATAGGGGAAAGAAGGCAGGAA
ATAGGCGCAGGGTCTGGTCCTGTCCCTGCACCACCCTGAGCAGCTAGTCTTGGGAAGGGA
TTACAGGCCCTGGGCCATAGGCTGCTCGCCATTCTGCTTTCCTATCCTGTTTCTCTCCCT
GTGCTGCTCCCTTTTAGCCAGGGCTGAGAAATGTTCAGCACCTGAGGCAAAAACTGCCAT
AATACCT
Sequence 943
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CATATCCCCTTGCTTGCTCAAATCAATCACGACCCTTTCATGTGAAATTTTAGTGTTGNG
AGCTCTTAAAAGCGACAGAAATTGTGCACTCGGGGAGCTCGGATTTTAAGGCAGTAGCTT
GCCAATGCTCCCAGCTGAATAAAGCCCTTTCTTCTACAGNTCCGNGTCTGAGAGGTTTTG
TCTGNGGCTTGTCCTGCTACAGTCCTTGGTTCCCTGACCATGGAAGCGAGGTTGACTGAC
AAGCCCTGTGGAGCGTCCCTGNANAGGACTNCGGCCTGCNTGAATGACNCAATCCAAAGA
GCGCTTNCCGGNTAGGAAATGGNCCTGGTGGAATGCC
Sequence 944
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGACCATCCACATTATCT
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TTTCTTAGAAAGCAACATGCATCATATCTTGAACAAGTTACCCGAGCGGTTTCTCCGTCC
TACAAACAGACATGGATCAATCTCTCCTTCTGGGAGCTTCTCTGTCTTTGCCCAGGTCGC
TCCCTGAGAGGTGAGGTCTGAACCCACTGGGAAGCAGGACGATGTTCAAGGCTTGTACCT
GCCCG
Sequence 945
CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAAGTTTACACCGTAA
GAGGCAACATGGTCAGCCACAATGTCTTCACCTCCACAAGGGCTCATNACGGTGGTCAGG
GCGAGGGCCCCCAGCATCAGAGCTTTGTTTAGGATCATNCTCTTTCCAAGGCAGCCTCAN
CAGTTGCTGTTNTGAGCTGNAGAGCAATTGNNCCCGCGTACCTGCCCG
Sequence 946
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TGCTGGGTGGCTAGATTCAGAAGAGAGAGAGCAATCACTACAGCTCAGCTCTCAGGAAGC
CACATCCATAGGAAAAGGGAGAGAGTACCTGCCCG
Sequence 947
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GGGCCACCTGCTGAATGANAGGACTCCAGTTGAAAGGTCAAGAACATAAAACCACAAAAG
CTTTTTGAGTGGGTCTTNAACTTANTTAAAATAAAAATAAAGGACCTNCCGCGTACCTGC
CCG
Sequence 948
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TGAGTCCATTGGCAAGTTTGGCCTGGCCTTATCTGTTGCAGGAGGCGTGGTNAACTCTGC
CTTATATAATGTGGATGCTGGGCACANATCTGTCATNTTTNACCTATTCCGTGGAGTGCA
AAGACNTTGTGGTAGAGGAAGGGACTCNTTTTCTCATCCCGTGGGTACCTGCCCGGGCGG
CCGCTCTANAACTAGGTGGGATCCCCCGGGCCTGCANGAnnnnnnnnnnnnnnnnnnnn
nnnnnCGTCGACCTTCGAGGGGGGGCCCGGTNCCCANCTTTTTGTTCCCT
Sequence 949
GCTCCCCGCGGTGGCGGCCGAGGTACTACTCAGCTGATCACAAGCTGCTTGATGGGAACC
TACTAGATGGACAGGCTGAGGTGTTTGGCAGTGATGATGACCACATTCAGTTTGTGCAGA
AAAAGCCACCACGTGAGAATGGCCATAAGCAGATAAGTAGCAGTTCAACTGGATGTCTCT
CTTCTCCAAATGCTACAGTACCTGCCCGGGCGGCCGCTCGATATTATTCTTCAATTCAGC
TTGTTAAACCTCCTTCAGGATTCTAAAACCTTTTAGACTCTTAAATTGCAGCCTTCCATG
TCCCTTGTCCTGCCTCCAGCACACTCTTCAGTAAACAAAAGTCAACAGCACCAGGGCA

Table I

Sequence 950
ACCCTACTATAGGGCGATTTTGGAGCTCCACCCGCGGTGGCGGCCCGAGGTACCAACAGA
AAACCTGGCCAGGCTCCCAGGCTCCTCATCAATGATNNATCCGACAGGGCCACTGGCAnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnTTGCAGTTTATTACTGTCAGCAGCGTAGCAACTCGTACCTGCCCG
Sequence 951
GCGAATTGGAGCTCNCCGCGGTGGGCGGCCCGAGGTACTTTGGCCTCTCTGGGATAGAAG
TTATTCAGCGGGCACACAACAGAGGCAGTTTTCAGATTTCAACTGCTCATCAGATGGCGG
GAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATCTCCAGCTTGGCCCCTGGCCA
AAAGTGTAAAGATTTGTAGAGCTTGCATGCAGnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGTCAGGGA
CCCCGGAGGCCCGATTAGAACCCAAATAGATCAGGAGCTGTGGAGACTGCCC
Sequence 952
ACAACTTTGGATTGTCAATGAAAGCTTGNTTGTGGATACTNATCAAACNNTTTTTNGTCT
ATTTANTCCTTGNTGAAGCTAAAAAGGAAAGAGAGAGTGAGAGGCAAAGAAAGACAAAGG
AGGAAAGACCTGCCCGGCGGCGTCA
Sequence 953
CCGGGCAGGTACAGATGATGACTGCAAAATGAAGACCTACTTTCAACTNCTTTTTCCCCC
CTCTAGAAGAATCAAATNGAATCTTTTACTTGCCTCTTGCAAAAAAAAGAAAAAAAGAAA
AAAGTTCATTTATTCATTCTGTTTTTATAGCAAAACTGAATGTCAAAAGTACGTGCCAAG
CATCCTCGTGCGACCGCGAGAGCCCGGGGAGCGGGGGCTTGC
Sequence 954
AGNATTTGGTATCTGCGCTCTGGTGAAAGCCAGGTACCTTCGGAAAAAAGAAGNGGGGAG
GCTCTNGAACCCGCAAAAAAAACACCGCTGGGAGCGGGGGGTTTTTTGGTTGGAAGCAGC
ANAATACNCNCANAAAAAAAGGACCTAAGAAAAACCCTTGAACTTTTNTACGGGGGCNGA
CCCTCANNGGGAACAAAAACNCACGNTAAGGGAANTTNGGCATGAANAATANCAAAAAAG
GANCNTCACCCAAAACCTTTAAAA
Sequence 955
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TTCAGTATGATAATGGACTGCAAAGGAAACCTCTATTCCTTTGGGTGCCCTGAATATGGT
CAGCTGGGACACAACTCAGATGGGAAGTTCACCGCCGGGCACAGCGAAGAGTACCTGCCC
GGGCGGC
Sequence 956
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAGATGCAAAGTTTTAGATGTTGGTATTTG
AATGGGATACAAAATTGGGAACTTGGAATTTGGGTTGAGACATCTTTCCTATGCAGTTGG
GAACTTGGAATCTGGGTTGAGACATCTTTCCTATCCTTGCAAAAAAAAAAAAAAAAAAAA
AAGTACCT
Sequence 957
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTCGCGGGGAGGAATTAACATA
CACTAACTTTGAGGAAGATGTGCTCATATACATTATTTTTATAATTCAGTCATATGAGGC
ATTTTATTCACATCCTACATGAGGAGATTGAGAACAAAATATGTAATGTAGATTCAAGTT
GACAGTGAGTGAGGCCAGAGTTCATACCCCAGTCTCGTGGTCTTTCTGCAGCCTCATGAT
AGAGCAAGGATATTGTCACCTGAGAAACCAACATTGAACCTCCTTCTCTGAAGCCCAGTG
AGTGCCCTTCCTCTAGACTCTGGCCACAGCTGGGCCTCCCTCCATCAGCCCACATAACTC
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TAGCTGTATCCTCTTCATCTCTGAACCTCCAGGACTTCAAAAGAAGTGACTGGACGTAGT
AGGTGCCTGGGAAAGGTTTTTGAATGAATG
Sequence 958
GTGTGCCACCGCCACTACCACTGATTGCCGAGACCCACTCCAGCCCCTTCCTGGAGTCTG
GCGGACCCAATTCATGACATAATTATCAAAAGTGAATCCAGAGGCTGTACCT
Sequence 959
CCGCGGTGGCCCGAGCGGCCGCCGGGCAGGTACATTTAACAATTGGACATACAGCACTGT
AAACAATTCAAAGTCCATTGAGCTTACCATGAAAGAACTGAAACGTATGTAGGAACTGTG
TCCTGCTGCAGACAAGCAGCTGCTCTGGCTCTGGTGCGGTGCGGTCANGAGGTGAGGTGG
GCAGGTGTGGAAGGGAGAATTCCTGAGGCCAGTCACAATTATTGAAGCTAAATTAATTTC
TTCCTGACACTTTAGCATTAATTCTAAGTAGTTCTAAGTTCTAAACCATTAACTGTATAG

Table 1

TTAATTTTTTTAAATCAAAGAAGAAAAAGGCTTTCACACAGATGAATGTATAGGAAAACA
CAAGTAATGACCAATTTTCAAGAGCCTTATTGTAAAAAAAGAAAGAAAGAAAAAAGGACA
ATTATTTTTGGAGTTACTGTCTCTAATTCTTAAAAAGTAAGTACCT
Sequence 960
CCGGGCAGGTACTCATCAGATGGAATGTTTTACCCTGCCGAGGTTNTAGTCATGATGTGC
TGAGCTCTCTGNGTCTGACGTGACTGACTGGTANCTGGGCGTTGGCNNGACCCTCCTTTN
NCTNTANNANCACATNATGNAGAATTTNNCACCTATGGGAAAATTAAANTGATNGACATG
CCCNNNGAAAGGATGCATNCCCATCTGNNCAAAGGCTATGCGTACCTCGGCCGCTNTAGA
NCTANT
Sequence 961
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGGTTTTAACTTC
ATGTGTCTGAAAGCAGCACTGAAGAGGTTAGAAAAGACCATCTTGATCTGAGGATGCCAC
CCCTCTCCCATCTCCCAGCAGCAGCCACCGTGGCATGGAGAGAATCTGTGTGCTAGGGAG
AGGGACAGCACAGTGATTGTGAGATACTGCTTTGAACTCAGTGCTGCCCTGTCACAGCTG
AAAGCAAAACTGGGCTGAACTCAGCCAGCACCCATCCACACAGGGAGCATTTAGATGAGC
TCTAGCCAGAGAGGAATCGCCCATCCCAGCAGTCTGAATATGAGTTCCAGCAAGCCCCGT
CACTGTGGGCTAAATTGGTCCAAGACCTTAAATAAACTTGAAAGGGCAGTCTAGGCCATA
AAGACT
Sequence 962
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGCCAGTTTCTTCT
CCACTGCACTCTTATATTCTACCAAAAATTTCTCCATAGCACCAAATCCCGCCATTTCCG
AGCTACGATCACCCGCGGCTGAGGAAGGACGAATCCCCCGCGTACCTGCCCG
Sequence 963
CCGGGCAGGTACTCCGCCATTTTACGTGAGAGACTTGAGCATTCTTGGATTTGGTATCCT
CAGGAGTCCGGGAACCAGTCCTCCATGGATATCAAGGGATGACTGTTTGCCCGTGTTTTT
AGCCTTTGTATCTTTGCTCAAGAAATCCCTAAAACCTGGAGTACCT
Sequence 964
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AAGAGTATAAGGTTTACACAATCATTCTCATAATGTGACGCAAGCCAGCAAGGCCAAAAA
TGCTGGAGAAAATAACGGGATCTCTTCCTTGTAAACTTGTACCTGCCCG
Sequence 965
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CCAGTGTTGAAAGTGGGGCCTGCTGGGAGGTGATGGGGGATCATGGGGGTGGAGTTCTCA
TGAATGGTTACCACCATCCCCCCTTCATACTCTCTCTTGCTCCAGCTCTGGCCATGCGAT
GTGCCTGCTCTCCCTTCCCCCTCCACCATGATTCTAANTTTCCTGAGGCCTCCCCAGAAG
CTGAGCAGATGCCAGCCATGCTTCCTGTACCTN
Sequence 966
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GTGGATGCAAGACTTGCCCTCCAGGAGCTTACCATCACAACGAAGAAGACAAATAAATGC
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TTACAGAGAAGGGGGAGGACATTCTGGACAGAAATGGAAATGTGTGAAGATATTTGTGTA
CCTGCCCGGGCGGCCGCTCTAGAACTAGGTGGATCCC
Sequence 967
AATTGGAGCTCCCCGCGGTGGCGGNCGAGGTACCAATAAGCATATTGCTTTGGCAATGCA
TCTCCAGAGCANGTGACCCTGGCCGTCTGTCCTGGGGACACTGAC
Sequence 968
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ATGCCACAGGGTGCGCACCTGAAGGAAAAGGAAAAGGAAAGGTTGAAACACAGCTCCTTC
AGGGCTTNTTCTTACCTGGCCAGGGGTGTTTCCTGTGTGCCACAGGGCGTTCCGCAGGTG
CTCGCCAGGCCCTGTGGTGGAGTTTACAACTTTCACAGAAAGGCCCGAGTATCCCTGAGC
CCTCGTGGGGTTGGTGTCCCAGTAGGACTGGGTGACTTGCTTCACATCACAACATAAAAG

Table 1

CGGCTGCTGGACTGGTAGCCAAAAGACAAATNCAGCATAGTCATCGTCCCTTTTCGGTGT
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ACCCAGAGCCAGGTTAAAACCTGCAGCCTTCAGAAAGGTTCTTCCGTCATGTTTCCTAGA
CATTCCTCAACACCCACAGGGGATAGGTACCCTGNCCCGGGCCGGCCGCTTNTAGAACTA
AGTGGAATCCCCCCCGGGCTGCAGGAAATTCNATATTAAGGCTTTATTGATACCCGTCNA
CCTTNAAGGGGGGGGCCCGGGACCCCAACTTTTTG
Sequence 969
TGGAGCTCCCCCGCGGTGGCGGCCCGCCCGGGCAGNTACTTTTTTTTTTTTNTTCTTTTT
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GGGGAGGAATG
Sequence 970
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTACCTCATCCTGTCTC
CAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCTGCCATCGGCACCTGAAAATAA
TCCTGAGGAGGAACTGGCATCAAAACAAAAAAAAAAAAAAAAAAAAGTCCTCGGCCGCTC
TAGAACTAG
Sequence 971
ACCNAAAGCATTCTACCACAGTTGTATTTGACTCCCACTTGTAATAACTCCTTTTAAAAA
TTCCATGTTTAACCATATGACCCTGCTTGCTTACTCATATTCTCCCTCCCTCTCCCCTTC
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ACAAAATCTCAGCTGTTGAAGAGTGGGCTTGGAATCAGACTTCTGTGTCCAGTAAAAAAC
TCCTGCACTGAAGTCATTGTGACTTGAGTAGTTACAGACTGATTCCAGTGAACTTGAATC
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CCAAGTAGTTGCTAATTTTTTGACAACTNTAAAATGAGTTNCATTCACTTCTTTTACTTA
ATGGTTTAAGGTATAGACCTGCCCGGGCGGGCGCTCTAAGAACTAGGTGGATNCCCCGGG
GCTGGCAGGGAATTCGAAATCAAGCTTAATCGATTNCCGNCCAACCTCGANGGGGGGGG
Sequence 972
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TTACTAAATCTGAAATATCTGGATTAGAATATTTCTAGGTTTTTTTTCTGCTCTTGACAT
TCTATGATAACTCCATGACAAATGTTCTTTTTCCAAATAATTAAAACTTAAAACATTTCC
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CTAAACTAATAAGGTTAGATGTTTTAGGGGAGAAATCTATTTGCCTACAATAACCACCCC
CCCTCCAAAAAGCC
Sequence 973
CGAGGTACCTATGGGCCAATGAATCCCACCATTTTCAAATAAATCNTTNNTCANACTCCA
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GGTGAAAATGGTTCCTGGAGTCACCAGTGTTGTACAGAGCCGCCAGGCGACTCAATTCAC
GTGCTCCTTTTCTGGGGATGAAAAGGTGCTCACCAGATCTTTCTATGCAACTGAGAGCTC
CTAAATCAAGTCAAAGGGGACCATCGTACCTGCCCGGGCGGCCCGCTCTAAGAACTAGTG
GATC
Sequence 974
CCGCGGTGGCGGCCGAGGTACTCAGAAGTGTCTCTAGGAGGCTGGGCCAGTTTCCTCTCT
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ATTTGGAATCTGGTTGAGTTTGGGTCCTCAATACCCAGAAAATAGAGCCTCCAGGACCCG
CCCCTAAGCAGGAATTTTTCAGATCTCCCTTCTGGGTCCTTTGGTCCCTAAGTCTCTGGC
TTTGGCATTCCTGGTGGGAATCCTTGCGGAGAGCCATCCTGGTACCTGCCCG
Sequence 975
CGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCCNGGTACANTTNAATACATTANTG
TAGTAAGNTATTAANTGGTGCCCCTATGATCTNCGAGAGGTAATACACTATCACGTGTTC
CAAATTTTNACAGGAAAAGAATCATAGANTCCTATANCTGAAGGGGGCTNTACCGGGNTC
TACAAANGCCTGCCAGGTGCTNGGATNTCCTNCATCACATNCANCCATGANAAGTTACTT
GTGTCATGGTACCT

Table 1

Sequence 976
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGAAGTCTCTCTCAGTCAGGACAC
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nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnCAACCTGAAGATTTTGCAACTTACTACTGTCAACAGAGTTACAGTATCCCCCTCACTG
TCGGCGGAGGGA
Sequence 977
ACCCACTATAGGGCGAATTTTNAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTG
GGTGGGGGCTGGGGGGGGTNCCGCCGACCGTTTTTCTCTTCCGGCCAGGTGCTTTTCTGT
CAATTTCTATGGAATGCAAAAGGAGGTTTTTGTTTTATTTTGTTTTTTTGTAAAGCTTAA
GAAAAAAATCACATCTTATACTTGAGCCTCCATACTTAAAAAAAGAAAAGAAAAGAAATC
AATAAAAAGAAACTGGGGCGCAGTT
Sequence 978
GGCCGCGGGGGCTGCGTAACCATGTTTNCATGAAACAAGCCAGCCANTTTGAGGNGTGCT
TTTTGAGTGTAAGGCCATTATCATGGACTTTTTCCCCAGCTGCAGGGTTATCTACAACTC
CGGGTGGAAGTCAAAGATTGGAAGAGGATGCTCTGATCCTGGAACTGCATTGCTTGGTGG
TCAGGAGGGGTTCTTAGTAAGCAAACTCAGTTTAATCCCAGAGTCGGAAGTGGGTGTCAA
CAAGCCAAAGCAACATCCTTTCAGCTCTGCTGCTTTTTTGTCTTGGTGGAGGAATAGCCA
ATGGAAGAAGATGGAGAGTCCGGACCAGAAAAAAAAAAAAAAAAAAAGTACCTGCCCGG
Sequence 979
GGTGGCGGCCGCTCTATAACTANGNCCACACCCTGNTATTCCTGCAGGTNGCCTTTTGCA
GCTNCAGGCNNTATGGAACAAATGAAGGTCNATGTCGACTCTAATAGAAGTAATNGTNGA
NNGGTGTTCTTCACATCCACTTCTGTTNNTGATTGAGTTAGGCATCTCTTTCATGGTAAA
ACCCTTTTCATTAAACACAAAGAAAGCTTTTTTTTTTTTTTTTTT
Sequence 980
GAATNGGAGCTTTTCGCNGTGGCGGCCCGAGGTACAATAACTNGCCTGAANTTCTATGGC
AACAGGCATTTANTNAGCGGAGCGGTTTTATGGNCTCATCTGTATCTGGGATGCAAAGAA
ATGGGAATGCCTGANGTCAATTAAAGCTCACAAAGGACAGGTGCCTTCCTTTCTATTCAC
CCTTGGCAAGTNGGCCCTGTCAAGTTGGTACCTGCCCG
Sequence 981
TAAAAATCACGTCACTATATAGGCACTGCTGTATGGAAAACGCATTTTGTGTTTCTACAA
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GCATGTNCCTCCTTTTCTTCACCCNCCCCTTTTTTCTTCTATTAATCANGAGAAACTTCA
AAGTTAATGGGATGGCCGGATCTCACAGGCTGANAACTCGTTCACCTCCAAGCATTTCAT
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TCCCTCAAAATAAAA
Sequence 982
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TGTGAACATGCTTTCTGCAACGCCTGCATCACCCAGTGGTTCTCTCAGCAACAGACATGT
CCAGTGGACCGTAGTGTTGTGACGGTCGCCCATNTGCGCCCAGTACCTGCCCG
Sequence 983
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGNCTTTTTTTTTTTTTTTTTTTTG
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TCCAAGTTGATGTCCTGACCCAAGGCACCCCAGGTTTCCAAGGATTCGTAATCTCTTTGG
AGCTGACCTATAAAAAGCAAAAGAGTTACTGAGAGTCACTTTCAGGGAAAGCTGGGTTGG
GACTTCTTTGACTCTTATGCTTACCTTTGGAAGAAACATTGAAAATCAGAAGGAAGCTGG
CTACAAATTTACATGGAAAGCTCATCTTAGGGGTTGGGTTCCTCTTTTGATTCTCCCCGC
GTACCTGCCCGGGCGGCCGCTCTAGAACTANTGGGATCCCCCCGGGCTGNNAGGAATTCG
ATATCAAAGCTTATCG
Sequence 984
TCGAATTGGAGCTCCCCGCGGTGGGCGGCCGAGGNCAGAGCCGCCAGGCGACTCAATTCA
CGCGCTCCTTTTCTGGGGATGAAAAGGTNCTCACCANATCTTTCTATGCAACTGAGAGCT

Table 1

CCTAAATCAAGTCAAAGGGGACCATCGTACCTGCCCGGGCGGCGTCTAGAACTAGTGGAT
CN
Sequence 985
CGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGCGCGCCTGCTGCCTTC
CTTGGATGTGGTAGCCGNTTCTCAGGCTCCCTCTCCGGAATCGAACCCTGATTCCCCGTC
ACCCGTGGTCACCATGGTAGGCACGGCGACTACCATCAAAGTTGATAGGGCAGACCGTTC
GAATGGGTCGTCGCCGCCCCCGCGTACCTGCCCG
Sequence 986
ATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGGAGACCAAGGGCTA
ANGCTGGGAGGTGAGTCTGTCACCTTGAGCCGGGCGAGCGCTGTGGGCCAAGCAGGGGTT
GCAGGGCAGTAGGAGTGCAGACTGAAAAAATGCAGACCGCCGGGGCATTATTCATTTCTC
CAGCTCTGATCCGCTGTTGTACCT
Sequence 987
TATTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCATGGTACAAGCACCA
GCACCAAGGGATAATCAATGGGTGGCCACCACGCATTCACAAGTATGCCTAGGTTTGAAG
CTGTGGAACCTTTTAGCTCCAAGTTCTCTGCATGGGTATTGGGGCAACCTAAACTCCTAA
TCTAGGAGAGTGAGTACCT
Sequence 988
GGCGGCCGCCCGGGCTTGTACCTACTTANTTCCAGCTGATGNTTGACCAAAGAATTTGCA
GGTGGATGGTTTGGTATCACTGTAAATAAAAAGAGGGCCTGAAAAAAAAAAAAAAAAAAA
AAAAAAGGAGTACCCAAGATCCCCAAATAAATTAGTAAAAGNGCCATTAAGAATTATCAG
ACATAGAATGTGTTTCAAATACAAATTNGTTAAATCCAAAAGATACAGTAATTTTATTAC
ATAAAATTTCTCCTGCGNGCTAAAAATGCTAACTTACAAGACATAATATTTGTAGTAGAG

Sequence 989
GNGGGNCTGGGACAGAGTTCACTCTCACCATCAGCAGCCNGCAGNCTGAAGAANNTGCAA
GAATANNACNGGGCAGCAGCATAATAACTGGCCCCCGNACCTCGGCCCGCTCTAnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnANNCGANAACAAGCNNATCGATACCCGGNNACCCAG
AAGGGGGGGGCCC
Sequence 990
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TGGNCTTCGAGAGGGGAATCTGGTCGGCAGCCCTGAATGGAGACCTGGGCCGAGTGAAGC
ATTTAATCCAGAAGGCCGAGGACCCAAGTCAGCCCGACT
Sequence 991
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATCATGAANAACA
CAAAATATTACCCAAAGATGAAGATTTAACAAAATTAATAATTTTTACTGTTTCACCAAG
GACTTTATAGTGAAACCGACTTTTTTTTTTTTTTACACTGCAAGTATGTGGCAGTCAANAA
CNCAATGGCTACTAACTAGCACCGTTTCATGCCACTAATGCTGATTCACACTACAGTGCA
AGTAATTTAATTTTACCCATGGNGCTNTTGCNCCATCAGCACAAATGTCAACACAGTGGA
ANAGCCAAACAACATTTTAATTTTTTTG
Sequence 992
CTACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGAATTTCCATCGGTTTGC
TGAGAAGCACAACTTTGCAAAACCCAATGACAGCCGTGCTCTCCAGCTGATGACCAAATG
TGCGCAGACTGTGATGGAAGAACTAGAAGGATATTGTGATCGCGTATGGACAGAGTGATG
AGTACCTGCCCGGGC
Sequence 993
CCCGGGCANGTACATCAAGCTTTTTTTACATCAAACCCCAAGGCTCTCATTGCCACCTTT
AATTCATGATAATCTATTGCTTCATCTTTGTCTGTATCAAATAGTTCAAAAGCATCTTTA
ATTTCTTGTTTTGTCCTCAGACAGTTCTCTGANGNTTCCTCTTTGTTTTGTCCACTAGAA
GCTCACTTCTCAGAGCTAAACTCATTATCTCTTCGCACAGAGACGTTCCTCTCAAGAACG
ATTTTAACCCCCTACCCAAGGCAGCAAGACGCCCACAGCCGTTCAACAGACACGAACGAC
CTCAGCGGCCTCCCCCGCGTACCTCGGCCGCTCTAGAACTAAGTGGATCCCCGGGCTGGA
AGGAATTCGATTTCAAAGCTTATCGATAC
Sequence 994
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGCAGGTACTTTTCTAGAAAAGCCTACA
TGTATATACTTAGTTACAGCTGCACTTCCCCATTACTTATTTTTAGGAAGGTTATAGAGA

Table 1

TGGAATAGATGCTGGCAAAGCAGTTACTCTTCAACAGGGCTTCAATCAAGGTTATAAGAA
AGGNANANGTCANTNTANACTATGGACNACTCCGAGGAACATTGAGGTAATTTTTAAAGT
CTAAATGCTGAATCATTTTAACCTCAATACTACTGGAGGATGTTTCTGTATAAATAAAGT
GTTTAAACTGAAATGCTTTTCCTGGTGCTAAATACACTAAAGCGTGTCGCAGATCATAGA
ATTATATTGCCTTCAAAAGGTCAAAATCNTNATNAGNCTCATCTACTTTAATGTGTGAAC
TACAATATTGTCTTTTCGTGCAAAGAAATGGTAAAGAAGATGTATACTTCTGCTACCTGA
ACAATTATCTATCTCATTGAAAGGTCTTCAGATTTTGA
Sequence 995
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AAATCTGCTTTGGTATACTCCATANNNTTTGTGCCATTGGATTATTCTGTTCCTATAGAA
ATCCCCACTATAAAATGTAAACCAGACAAACTTCCATTATTCAAACGGCAGTATGAAACC
ACATATTTGTTGGCTCAAAAACTGCAGATCCTTGCTGTTACGGTCACACCCAGTTTCATC
TGTTACCTGACAAATTAAGAAGGGAAAGGCTTTTGAGACAAAACTGTGCTGATCAGATAG
AAGTTGTTTTTAGAGCTAATGCTACTGCAAGCCTTTTTGCTTGGACTGGAGCACAAGCTA
TGTATCAAGGATTCTGGAGTGAAACCAGATGTTACTCGACCTTTTGTCTCCCAGGCTGTG
ATCACAGATGGAAAATGCTTTTCCTTTTTCTGCTACCAGCTAAATACTTTGGCACTGACT
ACACAAGCTGATCAAAATAACCCTCGT
Sequence 996
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ATTGTTNAATTTAGCTCTGGAACAATGCAGGGAATTTGAAGTTTCTTGTAAATAACCACA
ATTAGGAAAAAACCATACAGCTCAAGGAAAATCCACTAGTATANCCAAGATACCCTAAGT
TCTTCAAGAGACACAGANGGGAGAATTATGCCAAAGGTAACTATCACCACCAGAACGCGG
CCATCCACGTACCTCGGN
Sequence 997
CCGCGGTGGCGGCCGAGGTACGCGGGGGACGTTAGGTGTCCGCCGGAGGTGTCGTTGGTG
TGTTGCGCGACTGGCCTTGAGGGAGAGCTGGGGCCTGCTCCCGGAGAGATACCGGCTATG
TCGATCGAAATCGAATCTTCGGATGTGATCCGCCTTATTATGCAGTACCTGCCCG
Sequence 998
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CCAGGCTCCTCANCTATGATGCATNCAACAGGGCCACTGGCATNCCAGCC
Sequence 999
CCGCGGTGGCGGCCGAGGTACTCACGCCTGGTCGGGTGGCAGCTCGCGGCGCAGCTCGTC
CATGGTAATGTAGTTCTTGTCCCCAGCCAGGATCTTGAAGGAAGCCATGACTTGGTCTGC
TGTATCTGTGTCGGCTGTCTCGCGGGACATGAAGTCAATGAAGGCCTGGAATGTCACTAC
CCCCAGGCGGTTGGGGCCCACGTGGCATCGATCCTCCCTGCCCGCGAAGTGACAGTTTAC
AAAATTATTTTCTGCAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTNTAG
AACTA
Sequence 1000
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CAGTTGAGGCCGGCGCCGAGCCGGACTTCAGCCGGATCTCGTGGCGGAGCCCATCTTGCT
CCCTCTCCAGGCCTTTATCCGCTCCCTAGGATTCCCGGGCCCTGTAGGTGGGAGTTGGGA
GACGACAGTACCT
Sequence 1001
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CGCTAACNACCAAATGCAAATGTCATACNTCTNTGTCACTAGCANCATTAAGTTNCTNTA
GAGGACACGTTGTGAGCCACACCTNAAAAGACAAGCCTTCATCAATCTTTTCCTGGAAGA
TAGCTTGACCTAGCAAATTCATTATGTTCAAAATAANAGNCTATCTTTTCTTTNGTACNC
TGGCCCCGGNGCNGGGCNCCGCTTCTATNGAANCTAAGTTGNGTATTCCCCCCGGNGCCT
NNCCAGAGAAATTTTCTTATTATTNCAAAAGNCTTTNATACCNATTTNCCCCGGTCCGNA
CCCCTTTTGGAANGGGGGGGGGTGCCCCCCGGGGGTTAACCCC
Sequence 1002
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTGTTTTAAAGTAGTATTTTATTTCTCTGGGCTGTGCACACTTAAGGCATTAGATCCACA
GATGGGCTCATCCGCTGGGATGCTACTTGTGGTGATCATCTCCTAAGCCCCACGTTTTAG
CCTTGTACCTGCCCG
Sequence 1003

Table 1

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTACCAAGTCTTACAGT
GATTATTTTACGTGTTTCCATGTATCTCACTTTGTGCTGTATTAAAAAAACCTCCATTTT
GAAAATCTACGTTGTACGTGGGATACAGGTCACGGGCAGAGCTCCTGGCCTCAATGATGC
CTCCTGATCTATCGCTGGGCCTGGACGACCAACACTGGGATGATGACNAGCAGAATGGTC
ATGAAGATGCTCAAAATCAGGGCCCANATGTTCAGGCACTTGGCGGTGGAGGCATAGGCC
TGGGCCCCG
Sequence 1004
TACTATAGGGCGAATTNGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCTCTG
AAGAGGAAGCAGCTGGTTGGACAGGATTTCTTGAAGAGCCAGGTGCTAAGGGCATCAGGT
CGACATCCATAGTAACCATGTGCCATAACATCTACACATTTCCACTTGTTTTACAGACAA
GGTAACAGGCAGAAGGAAAATCCAGAGTCCTGCAGTAAGCAGATGACAAAACTTCAATAT
GCTTGGGCACCACTTAGGTGACCCCAGGGAGATTTAGTGTGGCCTTAGGAAAGCAAAAGA
GCACTTTTTATTGGAAATATGAGCTTGTCACTGGGAAAGATTTGTAAAATTGATCAAGAA
CTTGATTTATAATTATGCCTCAAAAAAAAAGTTCTCATTTAGTAGTGGAGCAATCTAGAA
AACATACCTTTTTTGTT
Sequence 1005
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACAAACCC
CTCAAGAAAGGGGCAAAAAGGCCCCGAGTCACTTCAGGTGGTGTGTCAGAGTCTCCCAGT
GGATTTTCTAAGCACATTCAATCCAATTTGGACTTCTCTCCAGTAAACAGTGCTTCTAGT
GAAGAAAATGTGAAGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnCGCGCTTGGCGGTAATCATGGGTCATAAGCCTGTTT
CCTGTGTGGAAAATTGTTATTCCGCTCACAATTTCC
Sequence 1006
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTACTTTGAAATTACTTTAATTTAAAAATANAAAACATN
TTGAAAGGAAAAAAAAACCCACAAAACATACAGGCAGATTTGTATTCTGTGAGTTTCTNA
CACCCTCACACTTGTTCACCAATNTNTAANATGAAAAACTNTTTTCCAAAATGTATTCAG
CCNCCAACAATGGNGTTATTAATAGGAATATGGATCAATTTCACAAANAANCCAATGAAT
CCCATTNTA
Sequence 1007
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nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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TTGGGCCGTTAATTCATTGGGTCATAAGC
Sequence 1008
CCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTGATCAAGCTATTAAAATGCTATAAAAA
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ATATCTGTTTCTGATGATCACGTGACATCTAGCATATACGTCTGTAGGAAAAGGGAAAAA
GCAAACCCATTTCACAAATGGCTAAAGTCAATCCCGCGTACCTnnnnnnnnnnnnnnnnn
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GGGGGGGGGCCCGGGTACCCAGCCTTTTTGTTTCCCTTTAGTGNA
Sequence 1009
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GAACACAAACGAGAAATTGCGGAAGCTAAGCAAATTGTTAGAAAGCTTACGATGGTTGTG
TTGTCTTCTGAAAAAATGGATGAGCGATAAAAAAAAAGAAAAAAAAAAAAAAGTACCTnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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Sequence 1010
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GCGACAGCTGATACTTCAATATTTGCAGGACAAAATGATCCCTTGAAAGACAGTTACGGT
ATGTCTCCCTGCAACACAGCTGTTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnn

Table 1

nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGTTAATTGCGCGCTTGGCCGTAATCAT
GGTCATAAGGCTGTTTCCTGTGTGAAAATTGGTTATTCCCGCTCACCAAATTCCACACCA
AACANTACCGAAGCCC
Sequence 1011
CTNCTTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTAGGAT
AAGGAGGAAGGCAGTAAAGCTGCAGTATGTCCTTGAAGCGTGTCAAAGTGGTATGGTAAG
GAAAAGGAGAGTTTTATCTCACAAAGCCATAAACACTAAACAACTTAATTTTCCATTCCA
GAAAATCAGCAGTCATCAAGACAGCACTTGGTAAAACATTTAAGATTTGTGATAATAACA
AGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGGTTACCCAGCCTTTTGTTCCCCTTT
TAGTGGAGNGGTTTAATTGCCGCCGCCTTGGGCGTAAATCATGG
Sequence 1012
CCGGGCAGGTACGCGGGGTGTGAGACTTCGGCGGACCATTAGGAATGAGATCCGTGAGAT
CCTTCCATCTTCTTGAAGTCGCCTTTAGGGTGGCTTGCGAGGTTANAGGATTTGGTNGGT
TTGGGTGGNGCCTGTTTCACCGNGGNAAAAAAGGGGTTGNCCCCCCCGGGGGGGGNAAAA
AAAAAACCCCCCCTTTTTTTTTTGGGGGGNTTTTTTTTTTCCCCCCNGGGGGNGNTAAA
AAANGGGGGNNNTTTNNAAAAAAAAATTTTTTTTTTNCCCCCCCGGNGNNGGTTNTCTCC
CCCTTTTCCCCCCTTTTTTTTTNNAAAAAAANAANGNGTTTTTTTTTTAAAAAAAAAAAN
TTTTTTTTTGGGGGGGGGGGGGNTTTTTTATTTTTTTTAACCCCCCCCCCNTTTTTTTNGGG
GGGGAGTTTTTTTNNGGGGGGNNNGNNAAAAAAAAAAAAAAAAAAAACCCCCCNAAAAN
AAAAAANNCCCCCCCCCCCCAAAAAATNTATAAAAAANANATAAAAAATTTTTTTTTTT
TTTTNNAAAANTNNNTAAAAAAAAATNNNAATNAAANANTTNAAAAAAAANNNNNTTNTTT
CTTTNATCATTTTATTANGGGGGGGGGGGGGGTAATAAAAAAAAAAAAAATTTTTTTTTT
TT
Sequence 1013
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TAGCAGCCCAGGAAACCAAGAGCAAAGACCACAACGCCGGCTGCGATGAGGAAGTAGCCC
ACGTTGACAAACTGCATGGCACTGGACGACAGTGGCCCGAAGATCTTCAGAAAGGATGCC
CCATCGATTGACACCCAGATGCCCACTTGCCAACAGGGCTTGCACCACACAGGAAAGATG
AAGCCAAATTGAAGAAGGATCATCATTGGGTCTTTAATGAAAGCCTGGAAGNCACNTGCC
ATGGGTGGGCTCCCTGTTTCAGGG
Sequence 1014
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GCGGGCGCTACGCCACCTCGAGTCGTGGTGCGTCCAGAGAGACAAATACCGATACTTTGC
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GGGGGGGGGCCCCGGTACCCCAGCTTTTTGTTCCCTTTTAG
Sequence 1015
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AGGTAAGGANCAATTCCTNATTTTTNTTAAAAAGGGGNCAAANNAACCTTGGGNTCCNCA
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TNTTAATTN
Sequence 1016
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CAAAAGGGAATTGACCCCTTTTCCTTAGATGCTCTTTCAAAAGAAGGCATAGTTGCTCTG
CGCANAGCTAAAAGGAGAAATATGGAGAGGCTGACTCTTGCTTGNGGTGGGGTAGCCCTG

Table 1

AATTCTTTTGACGACCCTAAGGTCCTGGACTGCCTTGGGGACATTGCCAGGGACTTTGTA
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Sequence 1017
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TTGGGCCACCTCTGTTACTTACTGTACTATGGAAGCTCCTGGTGAATGTTTACAATTATG
GGATGTAGTATTTCTATTTGTACTTTAAGTCAAATGCTTATATGAAATATGTGACAACAA
ATAGAGAAGACTGGCTCTGTTAGTAATTATGCAGTATGTACCTnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNCTTATTCGATACCCGTNCGACCT
TCGAGGGGGGNGGCNCCGGCTACCCAGCTTTTTGTGTCCCTTTTTAG
Sequence 1018
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TTTTTTNNTTTTTTANAAACCCCNNACCCCCCCCTTTTTTTGGGGGGGGGNTTTTTTTTG
GGGGGGGNNTTTTTTTTTTGGGGGGGGGGNNAAAAAAAANGAAAAAAAGGGGAAAAAAANT
TTTTTTTTTTTTTTTTTTTGGGGGGGGGNGGNNTNTTTTNNTTTTTTTTAAAAAAAAAAAT
TTTTTTNTGNCCCCCCNCCCCCCCCCCGGGGGGGGGGGGCCCCCCCTTTTTTTTTTTTTT
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TNNNTTTTTTTANNNNNNNNCCCCANNNCCCCCCCCNAAAAAAAAAAAAACCCCCCCCCC
AAAAAAAAAAAAAANNCCCCCCCCCCAAAAAAAAAAAGGNGAANAANGGNGGCNCCCCC
CCCC
Sequence 1019
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AAAATGCAAATAAAACAAAAGACAAATCTCCATCACGTACAACATGAACTGAACAGCCAT
TTAAAAATTCAATGGGTGAGAACTTCTTGGACCTCATTGGCTAGATTCCTTTCTTAAAAT
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NATGGTACCAAGACCTTGGAGNTGAAAATTATATTTT
Sequence 1020
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CTNCCCNTTTTTTTTNNGGGGGGGGGNNNCCCCCCCNGACCCCCCCGGGGGGGGGNNNAC
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GGGGGGGGGGGGGTTTAAAAAAAAATTTTTTTTTTAAAAAAAATACCCCCCCATCCCCCCT
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CCCCCCCTTTTTTTTTTTTTTNTTNNNNAANNNGNCCCCCCCNNTTCCNCNNNATTTTTTN
TTTTTNATTATANTANCCCCCCCCCNCCNATATTTNAGGGNGNTTTNTNNGNTTTTTANA
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Sequence 1021
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TTTTTNCCCCNTTTTTTTTTTANAAAAAANNGGATTGGGNAAAAAAATTTNTTTTGATTT
TTTTTNNCCCCCCTTTTTTTTAACCCCCTNNGGGGGGGNGGNGGGGGNGNTTTTNNCCTC
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NGGGGNGNANTANAAAAAAANGGGGGGGGGGGNTTTTTTTTNTNNTTCCCCCNCCTTTTT
TTTTTNGGGGGGGGGGGGAATAAAAAAAAANAAAAAAAAAA
Sequence 1022
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CTGACACAGAGCAATTAGACTCCCATAACAATGGTATCAATTATACCACTCCATTGGAGG
GACTTCCTTTATGTGTCACCCAGGATACATTGCTCAACTGCAAGTTGGCCTTTGGGGGGC
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Table 1

TNCCCCCCCCCCCCCCCCCCCCTAAAAAAAAAAAAAAAGGGGGGGNNCCCCCCCNAAAAA
ATTTTTTTTTNGGGGGGGGGGGGGGGGGTTTTTTTTTTTTTTTGGGGGGGNNAAAAAAA
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TTTTTTTAAAAANNAANAAANTNTNTNNAAAANNNGNAAAAAAGGGGGAAAAAANTNAAA
AAANCCCCCNAAANNNTNTTTTTTTTTTTTTTTTTTTNAAAAAAAAAAATTTTTTTTTTG
GGGGGGGGGGGGTTTTTTTTTTAAAAAAAAAAAAAACCCCCCCNTTCCCCCCCNTTTTT
TTTTTTGGNGGGGGGGGGGGNNCCCC
Sequence 1023
CCGGNCAGGNACTTGACCTTNATCTNCTAACCATTCTTTTATGTCATCAAGAGTTGCATC
ANNCGGGAAGCCTTTAATATNAACGGATCTGNNNTNNTACATCATTCNTATACTCANCAG
TTTCACCTTTCATAGTTTAGTGGAGTTTTTTTTTATTTTTTGGGGNANAAAACNCCCCCN
NCTTTTTTTTTTTTTTNTNNAGGGGGGGGGGGGGGGNTTTTTTTAAAAAAGGGGGTGNTGNA
AAAAAAANNGNCCCCCCCGNAAACCCCCCTTTTTTTNNGGNTTTTTGNCCCCCCCCCTTTT
TTTTTNGGNGGGGGGGGGAAAAAAAAAGNTTTCCCTATTTTTNGGGGTTNTGTNTTTTTT
AANAANAAAAAAAGGGGGGGGGGGTTTTTTTTNTTTTATNNANTNTCCCCCCGTNTTTTT
GNAAAAAAAAAATNNTTTNTTTNGGCCCCCCCTNTTTTTTTTNNNNNCCNGNGCCCCCCCCN
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TTTTTTTTTTTTTT
Sequence 1024
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AATTTTTTTNNTTTTTTNNTTTTTTTAAAAAAAAGGGGGGGGGGCCCCCCCAAAAAAAAA
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NNNGGGGGGGGNATNTNTTCCCCNTNTTCCCCCCCCCGGGGGGGGGGTTTTTTTTTNNCCCC
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NNNTTTTTTTTTTTNGGGGGGGGNGTGTTCCCCCCCCNGNGTCCCCCCCNAAAAAAAAAAA
AANGGGGNGGGGTGGNCNCCCCCCCCCNAAAAAAAAAAAAAATTTTTTTTTNNNTTTTTT
TTTNTTTTTTTTTNNNNNNCCCCCCCCCNAAAAAAAAAAA
Sequence 1025
CCGGGCAGGTACAGCACTGGAACTTCTTGAGCAGGAGCATACCCAGGGCTTCATAATCAC
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CAGTAATATTTTGGTGGNTGTCACTCANNTTGGGGGGGTTATTTTTTTGGGGGGGGNTTT
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AAAAAATTTAAAAAANNTCNCCCCCCNNAAAAAANNTNNCCCCCCCAAAAAAAAAAANAAA
AAAANTTTTTTTTTTTTTTTTTTTTNNAAAAAAAAATTTTTTTTGGGGGGGGGGGGNNTTTTT
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TTTTTTTTTTTTTTNGGGGNTTTGGGGGNATTTTCCCCCCCCCTTTTTTTTTTNNTTCCCC
CCNNNAAAAAAAAAAAAATTTTTTTTTTTNGGGGGGGGGNNNTCCCCCCCCCCCCCCNTTT
TTTTTNAAAAATTTTTTTTTGGGGGGGGGGGGGGGNTNTTTTTTTTTTTTAAAAAAAAAAA
NNGNGGGGGGGGGTTTTTTTTTTTTTTTTTTTTNCCCCCTATTTTCCCCCCCCTTTTNNCC
CCTAANAAAAAAAAAAAAAGG
Sequence 1026
TGGTCACTGGAACCTGGCCTGGGGATACCCATNNTGGGCTCCTTAAGTTNGGGGGGGGGN
NTNTTAAAAAANTTTTTTTGGGGGGGGTTCCCCCCCCNAAAAAAAAACCCCCCCCNNCCC
CCAAAAAAAAAAATTTTTTTTTTTAAAAAAAANNGNGGGGGTNNNAAAAAAANTTTTTTTN
GGGGGGGGGGGNAAAAAAAAAANCCTTTGNGGGGGGGGNGTTAAAAAAAAAAGGGGGGGNN
NGTCCCCCCNTTTTCCCCCCCNTTTTTTTNTTNGNNGTANTTTTTTTTTGGGGNTTTATT
AAAAAAAAAAANGGGGGNNGNTANCCCCCCTCTCTCCCCCCCTTTTTTTTTTTTGGGGTGN
ATNTANATNTNNTTCTCNCTNCCCNTTTCNCCCCCCCCANAAAAAAAAAAAAAGTGNGGGA
NNNNGGNNNCAANNNCTTTTTNTTCCGNNTNTTTTNTTNTTTTNTTTTTTANANCCCCCC
CCCNTNTTTTTTTTTNGGGGGGGGGGGGGGGTTCCCCCCCCTTTTTTTTTTTTTTTGTNNGG
NTTNAATTAATCNTTATATTTTTTTTTTTTT

Table 1

Sequence 1027
CGAGCGGCCGCCCGGGCAGGTACAGAGATAAGATACAAAGATAAAAATGTTGGTATCAGT
TGATTTTGAAGCAGGTAATTACTGTGCCACCTCACAGTGCTCAAAAATAGTTCAGNNCCT
GGAATAGGGTTATNTCAGNCCCCATGCAAAATTTTTTAAAAAAAAAAAAAAAGGGGGGTN
CCCCCCCNCAAAAAAAATTTTTTTTTTTTTTTGGGGGNNGGGGNNNNNGGGGGNNTTTT
TTTTTTTTTTTTTTTNGGGGGGGGNGNCCCCCCCTTTTTTTTTTTCCCCCCCCTTTTTT
TTTTAAAAAAAAAAAAAAAAANCCCCCCCCCTTTTTTTTTTT:TTTTTNGNNCCCCCNN
CCCCCCCNNTTTTTTTTTTNTNCCCCCAAAAAAAAAAACCCCCCCCAAAAAAAAANTTTT
TTTTTTTTTCCCCNNCCCCCCCCTTTTTTTTTTTTTTACTNTNTNNNCCCCCCNNNCNC
CCCNNNNNNCCCNTNNGGNCCCCCNTTAANNCCCCTTTTTTTTTTTTTTTTTTTNANCNNN
NNCCCCCCCCCCNNNTTTTTTGGTTTTTTTTTTNNAAAAAAAAAAAAACCCCCCCC
Sequence 1028
CCGGGCAGGTACTTATGTGAAAGGTAAAAAAGATCTCATAGAAGTAGAGAGTGGCTCATG
CCTCTAATCTCGGNGCTTTGGGAGTCTAAGGTGGGAGGATCGCTTTGNCGGGCCTGNGTA
GTTTTTGGTNACTCAAGNCTCTGNAGGTTNNCCCCCNAAAAAAANAAAAAATATTCCCCC
CAAAAAAAAATTTTTTTTTTTTTTTTGGGNTNGTNGCCCCCCCNTTTTTTTTTTCCCCCC
CNNAAAAAAATATTANNTNTGNTAAAATTTTTTAAAAGNGNNGAAAATTTTTTTT
Sequence 1029
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GAACATCTTTGAATTTTTTTGAGAGACAGACTTTGTTACTTAGGCCTGGAGGCAAATGGTA
TGATCTGGTAGGTACCAGGAGGTGAACANCTGGAACCAGGATTCACCAAAAAAAAANGGGG
GGGGGGGCCCCCAAAAAANANCCCCCGGGGGGGGGNAAAAAAGGGGGNNGTTAAAAATTN
AAATTTAAAANGGCCCCCCCCNAAAAAAATTTTTTTTTTNNTTTTTTAAAAAAAAAAAGG
GGGNGNNNNTTTTTTNTTTTTTTTAAAANCCCCCCTTTTTTTTTTTTCCCCCCNTTTTTT
TTTTCCCCCAAAAAAACCCCCGGCCCCCCTTTTTTTTTTTATNTNCCNNNNCCCCCCNNN
NCCCCNTTNNCCCCNTTTNCCCCAAAGNGGGGNTNCCCCCCCCGGGGGGGGGNAATTTTT
TTTTTTTTTCCCCCCCCNTTTTTTTTTTNTTTGNNNCNNNNANNCCCCCCCCCTTTTTTT
TTNNTTTTTTTTTNNNANCCCCCCCCCCGGGGGGGGGGTGTTTTTTTTTTTTTCCCCCCCC

Sequence 1030
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CCCCTNTAAAATTTAAAATANNNTAAAAAATTTAAAAATGGGGGNNNTGGGGGGGGGNTT
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AAAAAAAAATNCCCCCCCCCTCCCCCCCCCGGGGGGGGGNTTTTTTTTTTTNANAAANT
GTNAAAATTTTNAAAAAAANTNAAAAAAATTTNAAAAAGGGGGGGGNGGGGGGGGGGNTTT
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GNGANNTTTTTTTTTTANANTTTTTTTNGGGGGGGGGGGGGNATTCCCCCCCCCNTTTTTT
TTTTTTTTTGGGGGNATTTGGGGAGNTNTTTTTTCCCCCCCCCCCGGG
Sequence 1031
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TAGGCTCTGTTCCCATTTTAAAACTCTGATATTGGCCTTCACCTGTGACTGGACACCTTT
ACNTANGAGGCGCCATGTTTCANCTATAANCAANTATAGAAAAGAAAAAATTTTTTTTTN
NCCCCCNTTTTTTNAAAAAAAGNAAAAAGNGAAAAANTTTTTTTTTNTNAAAAAGGGAAA
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AAANAAAAAAAAAANGGGGGTTTTTGGGGGGGGNNTTAAAAAAAAAAAAAAAANTTTTTTT
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NGGGGGGGGGGGGGTGGGGAAAAAAAAAANNNAAAAANNTTTTTTTTTTTTTTTTTAAAAAAA
AAAGGGGGGGGGGGGGGGNAAAAAAAAAAAAAGGGGGGGGGGGGGNTTTTTTTTTTNNTT
TTTTTTGGGGGGGGGGGGGGGGGGGGG
Sequence 1032
AGGTACNCGGGGNCTTAANAACGAACGGNTTGGGCGCGGACTGGTATCCGGGGACTGTGA
CTTGCAGGGTCCGCCATGGAGCCAGANCAGATGCNTGGAGGGGTACAAACGTCAAGGTTT
TGTCAAGTAAAAATTCCTTACNTCTGAAAAANGNGGNGTTTTTTTTTTNAAAAAAAATTNC

Table 1

CCCNNAANCCCCNTTTTTTTTTTTGGGGGGNNTTTCCCCNTNNATCCCCCCTTTCNCCCC
CTATGNGTGNAATNGGGGNTATTTTTTTTTNTTTCNCCCCCCNGGGGGGGGGGGGGGNG
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CCCNTTTTTTTTTTTAAANAACAAGGGNGNTTNGTTAAAAAAAAAAAAAAAAAANCCCCC
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GGAGGNTTAANAAAAAAAAAAANATTTTTTTTTNTNTTANCCNTTTNTTCCCCCCCCNCTA
TATTATTTTTTTNTTTNTGAANTANGNTCCNCCNNNNNTGTTTTTTATTTNGAGGNATTA
TTATTTGGTNTATTTANCCNCCCCCCCNCNTTTTTTTTTTTNN
Sequence 1033
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CCCTGGTTGGNGGGGTNTAAAAAAATTTTTTTGGGGGGGNGNCCCCNNAAAAANNCCCCC
NTCCCCCCAAAAAAAANTTTTTTTNTAAAAAAAAGGGGGGGGGGAAAAAAAAAATTTTTTT
TGGGGGGGGGGNNAAAAAAAAAAANNNTTTTTNGGGGGGTTTTTAAAAAAAAAGGGGGGNTG
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AAAAAAAANCCCCCC
Sequence 1034
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ANNNNNNCCCCNTNNNTNNCCCCCCCAAAAAAAAAAAAANAGGGNGNNNNGGNNGANNANA
NNNNNNNTTTTTNNCCCCTNCNNTTNTTTTTTTTTTNTTTTCCCCCCCCCTTTTTTTTTTT

Sequence 1035
TCGANGTACATGGGGGTCCGTGCGGGCANAACCCAGGGCATGAAGATCCAAANGGGCCTG
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CCCCCAACCTACATTCTTTCCAANCTTTGTGTCATTTACCCCTTTTTTTTTTTTTTTGGGG
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NTGGTTNTTNAAAAAANATAAAAAAAAAAATCCCCCCCCCCCTTTTTTTTTTTAATAAAA
AAAAAATGGGGGNTNCTNTTTTTTTTTTTTTNGGGANGTTTTTATNGTATTTTTTTTTAAAA
AAAAAA
Sequence 1036
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GTTGTAATGCCGGTGGTGTAGNCAGTCTTTTGCCTTTTGGGGGGGGGGGGGTTTTTTTTA
AAAATTTTTTTTNTAAAAAGGAAAAAGGGAAAAATNTTTTTTTTNCCCCCCAAAAAAAATTT
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NGCCCCCCCCCCNTTTTTTTTTTAAAAGNNAAAAAAANNAAAAAAGGGGGGNNTTTTTTTT
TTGGGGGGGGGGGGGGGGGGNNAAAAAAAAATTTTTTTTTTTTTTTNNNNNTTTTNNNCCCC
CCCCGGGGGGGGGGGAAAAAAAAAAANTTTTTTTTTTTNAAAAAAAAAAAAAAAAAAACCCC
CCCCCCCNAAAAAAAAAAANAAAAAANAGNCCCCCCCCCCAAAAAAAAAATTTTTTTTTN
AAAAAAAAAAAACNCCCCCCCCCCAAAAAAAAAAANGGGGGGGGGGGNNNNTTTTTNNNNN
NNTTTTTTTTNGGGGGGG
Sequence 1037
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Table 1

TCAGGCAGGAGAATCACTTGAACCCAGAAGGTGGAGGTTGCAGTTGACCCGTAGATCATT
GCCCANCTGNCATTTNCCAGTCNCTGGGGGGGGGNNCCCCCGGGGGNGGNAAAAAANNCCC
CCNAAAAANGGGGNGNNAAAAAAAGGGGNTTTTTTTTNGGGGGGTNAAAAAAGGGGGGN
TTNTNAAAAAAAANCCCCCCCTTTTTTTTTCCCCCCCTTTTTTTTTGGGGGGGTTTTTTT
TTNNCCCCCCCTTTTTTTTTTTNCCCCCCNCCCCCCCCCCNAAAAATTTNAAAAANNNN
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AAAAAANNNNAAAAATTNTNAAAAAANNTTTAAAAAAANNTNNNAAAAAAANTNTNAAAAA
AATTTTTTNAAAAANNTNTAANAAAAATTTNNAAAAAAANTTNTNAAAAAAAAANNNNNAAA
AAAANNNTTTTTTTTTTTNNNTTTTNTNNNNNGNAAAAAANNNNNAAAAAAAAAANNNTNN
NAAAAAATTTTTTAAAAAANNGGGGGGGGGGGGGTTTTTTTTTT

Sequence 1038

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CTCAGGGCTTGTGGTTGTCTGCCTTGTGTTTAGACATACCCAGGAATCTCATTACTTTGC
ATTGAAGACTGTTTTTATTTTTGGAATGTTCTGAATGTTTCCAAACTGCTGAACTGTGCC
TGAAANGGGGNTTTTTNAAAAAATTTTTTTTTTTTNGGGGGGGAAAAAAAAAAAAAAAAA
AATTTTTNNCCCCCCTTTTTTTTTTTTTTTNNNCCCCCCCTTTTTTTTTTTTTTTTTTTTTNCC
CCCTTTTTTTGGGGGGGGGGGGGGGGGGNAAAAAAAAAAAAAAAACCCCCCCTTTTTTTTTT
TTTTTTGGGGGGGGGNCCCCCCCAAAAAAAAACCCCCCCNTTTTTTTTNCCCCCCCAAAA
AANTTTTTTTTTTTNNAAAAAAAAAAAAAAAAAAAAAACCCCCCGTNCCCCCCCCAAAAAAA
AAAAACCCCCCCCCTTTTTTTTTNGGGGGGGGGGGNTTTTTTTTTTTTTTTTTTTTTCCC
CCCCCCCCTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAAACCCCCCCCCTT

Sequence 1039

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CCGGGAGGTGTGCTCTTTTTCTGGGAGCATGTGGCAGAACCATATGGAAGCTGGGCCTTC
ATGTGGCAGCAAGTTTTCGAGCCCACCTGGAAACACATTGGGGATGGCTGCTGCCTCACC
AGAGAGACCTGGAAGGATCTTGAGAACGCCCAGTTCTCCGAAATCCAAATGGAACGACAG
CCCCCTCCCTTGAAGTGGCTACCTGTTGGGCCCCACATCATGGGAAAGGCTGTCAAATAA
TCTTTCCCAAGCTCCAAGGCACTCATTTGCTCCTTCCCCAGCCTCCAATTAGAAACAAGC
CATCCACCAGCCTATCT

Sequence 1040

CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCCT
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GAGGGACAACGCTGCCACCGCTTCGCCTGCAACACGTGCCCCTACGTGCACAACATCACC
CGCAAGGTAACAAATCGGAAGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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TCATAGGnnnnnnnnnnnnnnnnnnnnnnnnnnnCGCTCACAATTCCACACCAACATACC
GAAGCCCGGGGAGCATTAAAAGTGG

Sequence 1041

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAGTGCAAAAG
TTAGTTGAACTGGTTCATTCATCTCTATGGTAACAGCTTCCTCCTCTTTATCGACATTAC
TTGTCTGTGACAATTTAATGTTTCCATTTCCAAGTTCTCCACTTGCAGAAAATTTCACTC
CGTCTTTTGCACAGGAAATTACAACAGCATCTCCAATATGGCTGAGATCTCGGCATATAC
GTGCAAATTCACCAGAAGGCATCTTTACTACACAGCTGTACCTGCCCGnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTCG
ACCTCGAGGGGGGGGCCCGGGTACCCAANCTTTTTGTTCCCTTTAGTGGAGGG

Sequence 1042

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NAAATGATACCCAGGAGCAGCAGGCTTTACGTCTTCAGCCTAAAACCCAAAAAAAAAAAA
AAAAAAAAAAANGTACTGGACCGGGTTGCTGAAAANACTCACACCCNAATACCCGCGTAC
CTGCCCG

Sequence 1043

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GTCAAACAGCTGGAAGGCCTCCTTGAACTCTGCGGTCTGGTCTTCGGTGAAGTCACACAT
CTTGACTGCTTAGCTCTCCGGGACCTTTTCCTGCAGTAATGGCCCCCGCGTACCTnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn

Table 1

nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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Sequence 1044
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TGAAGAATTTTTTTAAAAGCTGTTTTAGATCAGGGTAAGACCGNAGGCTTAAACAAAAAA
AAAAAATAAAAANGTNCCT
Sequence 1045
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TTCTCTTGTGAACTATCAAGGGGCCGCCAGAATCACCTCTGCAAGTATTGGGGTCAGCAT
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GGTACCCAAGCTTTTTGTTCCCTTTTAAGTGAGGGTTAAATTGCGCCGCTTGGCGTAATC
ATGGGTCATAAGCTGTTTCC
Sequence 1046
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GGATAGCCTCCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGAGCGAG
ACATCTCGGCCCGAATGCTGTCAGCTTCAGGAATGCCCCCCGCGTACGCGGGGCCCGCGG
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AGTATAAATAATGGGCTGTTCAAGCAGAAGA
Sequence 1047
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NGGGACGACAGTGAAATCTANAGTAAAACCAAGCTGGCCCAAGGTTGTCCNGCAGGCTGC
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TCCAAAAAAAAAA
Sequence 1048
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Sequence 1049
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CCCTCCCACCTTTTGATCACTAATTTGAANAAAATGCCNTTACAGCNTGGATTCTCATGA
AGGCATTTCCTCAAGGGGAGGCTCNCTTTTTGAAAGAAC
Sequence 1050
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CACCTGGTGGCTTTTAGNTTATTTAAGGCCGTTNTTGGGAGGAAGGGCNCATTGGCCTNA
NNCCATCTTTAAAAGAAAGTTTCTTTTCTCCCCTTTTAACNCCANCAATTANAAGGGTAT
TTTCCTNNTGGTAGNNCCANGNAACCNCANCNCCCCCTTTCTTTTGGNAAGAAACNTTTT
NCAACCCNTTCCCAATTTTTTTTTTNGGAANCCAAAACCANCCTCTAACNCCGGGGNGNN
CNAANGTAANNCAAAAATTCTGGGGGTTNTTAATTTGGGTTTTTAAAGGGGGTTCCTTTC
TTTTCCANTNGGNGGNAAGATTTTTTGGGGGNGGGNNAAAAGGTAANANTTTTANGGAAA

Table 1

A
Sequence 1051
ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCAACATATAT
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AGAAAAAGGAAAAGTATTCTCCATCTGTGATCACAGCCTGGGAGACAAAAGGTCGAGTAA
CATCTGCTTCACTCCCCGCGTACCTGCCC
Sequence 1052
CGGGCAGGTGGCCGCCCGGGCAGGTACTGCTAGTGCTATCGGTTGAATAAATAGGCTGAT
AGTTTCGATGATGATTAAGTATGGGAATTAGTGAGATGGGGGTTCCTTTCGGTNANGAAG
TGGGCTAA
Sequence 1053
CGGGCAGGTACAGATACTTGAAGCAATTCTGCAAAGACCCTGAGTTTTCACAGGGCTGGT
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TGCCATAGGATCTCTCTTGGGAGATGGACAACCCTNAAAGGCACTGATTTGGTTGACATT
GGTAGCTCTGGTCCTTACTCAGGCAGCCAGCTCATCCAAGGCCCGGTCCAAGGGATCCAC
TGACCAGTAGTCATTATCCCAGCTCGAGGAACCAGCCCACAAAGGAAGGAGGCCTNAAAA
GCCTTTGCCTTAACCGACAGTTGATGGGGGGTCC
Sequence 1054
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AGTTCCCAATAGGCCGCAGTAGTAATAAGTGGAGTGTTCGGGATATANAAAAATTTTCAC
GAATGGAATNAAAATTTCTAGGCGAATTCAGTGAGTTCCCAATGGGACATGATTGTATGA
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Sequence 1055
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ACCTTCAGCAAAATGGCTGTGTAAAAAATTAACTCAAATAAATCAGTAGTCTTCATCTAC
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Sequence 1056
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ATGGAAAACTGCTAATGCACAATGTTAAGAGATCTCCATGAGAACCAGGCATTAATCCCA
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ATTGTAAGATATACCTTTTTATTTCTTAGGAGCATGTGACCTGCATACGTAAACAG
Sequence 1057
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GTCTTTGGAATTCCTAGCTCATCTCAGAATTATATCTTAGAGTGATAATATGGGGTGGTA
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GGGCCCATATTGCCTGGTAAACCCTTGAGCCTGATGCTCATACAGCTGTCCCTTGTTTTA
GCCAGGTCTTGACAGAAGGGTTACCAGCA
Sequence 1058
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CAAGAGTCAAATTTGTAAGACTCACAGAATGTTAAAGCCGGAATGCCATTAAAAATAGCA
TATAAATGGAAGAACTTCGGTGAATTCAACAAAAAGTACCTCGGC
Sequence 1059
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CATTCTTTTCCAGCCACACTAAACTTGCCGATCTTAGAATATGTTGAGTTCATTCTAGCC

Table 1

CCAGGTCTTCAAATTTCCTCCTCCTTTCCTGAAATAGTCTTCTCCCAGATTTTGGTGTGG
CTCTGTACCT
Sequence 1060
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GCTCCCATGCCCTGACACGAGGCCCACTACAATGCTCTCCAAAATGTCCACAAAAGTGAC
TTAAGTCAGGTTCCCCCAAACCAGACACCAAGACAAGAATCCATGTGTGTGTGACTGAAG
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CAGACTCAAGGCAAGGGCACTAGGCTTTCCAGACCTCTACTAAGTCATTGATCCAGCACT
GCCCTGCCAGGACATAAATCCCTGGCACCTCTTGCTCTCTGCAAAGGAGGGCAAAGCAAC
TTCAGGAGCCCTTGGGAGTCCTCCAAAAAGAGTCTAGGGTACCTN
Sequence 1061
CGAGGTACCTTCATGCTCTAAATCAGATGATCTACTATCTGAAAAGGAAACGACAAATCT
GACAACAAANGAATTTCACAACAGATAGGCAGTTGATAGCATGAGGCACTAACATTAAAC
CCAAGTCTTTCAATGGCACTTGGAGTCCCAGGGTCTGCCCG
Sequence 1062
CTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATTATAGCGACATACAC
AGAGAATGCAGTTAAAAACTCTACCTGTGATACATGAAAGCTTCAGGGGGCTATATATAG
CCAACAGTAATTGACTATTACACAAGAACCAAAGAATTGGACCTTGAAAGGAAATATTCT
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AAGTAGTCTTCTGTGGTAATAAAACTATCATTTTGAAAGGACAAAAAGATTATTTTTAAC
CCTGCTTAACTNTTATGNNGTAACTACATTCCAATTTAACAGCATTTAAATTAAAGAAAA
GG
Sequence 1063
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CGCTCTTNGGAANCTAGTGNGNATCCCCCGGGGCTG
Sequence 1064
TATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCCCTTTTAAGT
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GGGCAGATTAGTAGGCTTTGGTGTGGCTTTTTTCTTTCTTCCTTTCTGCCTTTACGCCGT
TTGGGTTGATGCATCTGTGTACCT
Sequence 1065
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGAACTAGCTCCTTCTGGTTAATTTGTTGATT
GGATTGGAAATTAGAACATGGAGCTGGTCAATGCACGGTATCTGGTAATTGTGGATGGGG
GAGATGACTGGGGCAGAACTGAGCTCATTTTTGCCAACATAGTACCT
Sequence 1066
CCGCGGTGGCGGCCGAGGTACCTCTGTGGAAATCCCTTCCTTCCAGAAGCCTCCACTCAC
TTCTGATGCCAAGGAGCTCTGCGGCGCCCTGCACGCACCTTTACAGATGCAGGTGGCTGT
TTCCTGTGTCAGACTGCAAGCTCCCGTGAGCTGGGTTCATTGCTCATCGTTGACTTGGCC
TCCCCGCGTACCTGCCCG
Sequence 1067
CCGCGGTGGCGGCCGGTGCCACACTGGGCCAGGGTAGTCATCCTGAAATACATGTCCAGG
GTCTTGTTTGTCTATGATGTGGGTGAAAGCTGCCTCAGCCCGCACCACAGTAGAGAGCGG

Table 1

GACCACCTCACGAAAGTTTTAGCAAACTCCCAGGGTCTAACCTGAAAGCAGCCAGGAACA
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GTAAGAACCCTCAGGAGGCCGAGAGTTACTGTGCACAGTACCT

Sequence 1068

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CACACACAAAGCCCACTCTCCTTCCTTCAGACCCTATTAATTCTAGTGTAAGAGAGATGG
GTGATGTTCCACAGAAGAAGCTAAGTTGGACTTTGAAGGATAAAGAGACGTATGGGAGGA
AAAGGCAGGAGGTAGAATTCTAGCCACAGGAAGAACCAGGTGAGAATAAGCTTGAAGATG
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GAAGCTGTGGCTGCAAAGGCAGTAGGCAAGAAAGTGAAGCCAAACGCCACCCAAGTGGCA
CTCTCATGCCCCTCTCTAATGTCAGGATATGTTTACAGCCAGCATGATTTCCATATACAT
TCCTCCTTCACTTC

Sequence 1069

AGGTACTCACTTATAGATGGTTATTGGCCAAAAATACAGACACCATGCTATTATCCACAG
ACTCAGAAAAGCTACACAAGAAGGAATGCACAAGTGAGGATGCCTGAATCTCACTTAAAG
GAGTGCATAAAGCAGTTCCTAAGAGGAAGACGGAGGGAGTGAACTGAATAGAGAAGAGAT
ACGGAGGGCTATGGGATGGGTTTGGAATCAG

Sequence 1070

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACGCGCATTTGT
GTGTGTGTATCTATGAGAGGGGGAATTAACAAATTACATGGATTTGTGTATGTGTGTGTG
CCTAAGAGACAAGGAAGGAAAACAGTGCAGTTGAGAAAGGTGAAGCAAATGTGGCCAAGT
ACCTGCCCG

Sequence 1071

AGGTACTTTTTTTTTTTTTTTTTCCTGAGGGAGATGGATAGGTGAAGTAATGGTTGACAAG
CATAAGTGGGAAGCTTCAAGTCCCAGGTTCTCCCATCAAATCATTTTCTCACAATCTTGC
TCAGTATTCTCTTCTAGTAGGCCANAATTTGAAGGATTAGCTCTCTGTATATCTAATCTA
AATCCTACTCCTTGTTTTAAGCTCTTTGATTTCAAATATTAATGATCTGGTACAGCATCG
CTGGTGGTTTCAAAAAACGTAGTCATTCTTCTCACTGCAACAATGTAAGATAAGCAGGGT
AGATCTGTTATTTCCAAATTAAAGGTGATTAAGATATATGGAGAGAGAACATGGCATGTT
GAGGTTTATAGGGCTAGAA

Sequence 1072

AGGTGCTAGCTTGAGTCGACCCACGCGTCCGCTCAAGGAGAAGGAAGACCAAAGTATGCA
GGAAGGACCCTAGGGCCTTTCACCAGCTTACATCCACCCACCTTGGGCAAGGATAGGTTA
GATTCCAGTTTCCTGCCTCCCGCCATGGCTAGGCATTCTCAATCCACAGGAACATTCTTG
AGTAGAACATTCCCAGAATGATCTGACTGATGCTTGCTAGCCAATAGATTTAAAGGTTAA
TATGCTTAGCCTATAAGTTAGAAATGTAACCTTTCTGAGGTAACCTGTGCCCTTAAAAAG
TATAAG

Sequence 1073

AGGTCACGCGTCCGCTGCTGGGCTGAACCAACCAAAGATGGAGTGGCAGAACCCTGGGAG
CTGATCGGGGTTCTTTCTAGTAAGTAGTTGCCAGGCCTTAGAACTGATTGGTGTCACCTA
CTTCAGTGTTCATTCATTTCAATGACAAGATCAAAATCAGATTTTACAGGATGACCAAGA
TTCTGAGTTTCTCCCATGGCAACAAGTTCTCAGGTTAAAGTCTAGGAATGGTCATACTTG
CAGCTTGTTCTTCCAGAAGACCTGACTTTGGTTCCCAGAACCCATGTTGGGTGGCTCACA
ACCATCTATAACTCCAGCTCCCGAGAGCCAATGCCTCTGACCCCCAAGAGTGCCTGCACT
CATGTGTATATATCCCATAATTAAAAATAATAAAATAAA

Sequence 1074

CGGACAGGTTGCAGAAAGGGAAGAAATGCCAGAAGGAACCAATGAAGGATGAGCCCAGCT
TCCAAATTTTGATGAAAGCTTTCGTCTCTACATCAGAGAAATTCTGCAAGATCTTAGAAG
GATGCGCTCAGAGAGATTCACACCTAGAAACACCATACTCAAAGGGTAAGGAGAAGAGAG

Table 1

CCCCAGGGAAGAATACAGAAGGGGACACATGACTGGCCACACAGAAAGCTCATCAGGAAG
AAAACATGACTCCCTGTCAGAAACCCAGGGTCCAGAAGGAGTGGGATGACGTTTGCTAAG
TTATAAAAGCGAGCTGTGCACCCAGATTCTATAC
Sequence 1075
CCGCGGTGGCGGCCGCCCGGGCAGGTACCCCAATCATTTGCCTGCATCCTTCTCTTCTCA
ACAGACTCAAGAAGTAGAGACGCTGACTTTTTTGTCTTTGTATCCCTAGGACTTAGCACT
GCCACCAAATACAACCAAAGTTTGCTGAGCTGACATGATTAAGAGCCTATCTGTGGAAAA
GTATGATCGGTCTTTGTGAAGTTGCAATCTCTCAGAGACTTGTTTTGTGCCTTTACAAAT
AATAGATTTTTTT
Sequence 1076
CCGGGCAGGTACTACTGGCACTGAGCCAATGTATGCTATCAAGGAAAGCTTTATCTGTCA
CTGAGCAAAGGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCCTACACACAAAC
TATGAGGAGAGATCATTTCTTTTCTTTCTTTTATTTATTTATTTTTTTTGAGACAGGGTC
CCACTCTGTCGCCCAGGTTAGAGTACCT
Sequence 1077
CGGNCAGGTGCTTGAGTCGACCCACGCGTCCGCACTAAGATTNTAAGTGAATACCACCAA
ACCCAGGAATAAACTGATTTTTTTTTCCCTCTTAACTGGAAAATAACCTGAATGTNTACN
CAGNTAAAAAATGAGATTGGNGGGAACCNTAAACGACCCGGGCTGNTGTTTGCTCTCCAC
AACCTGATGGCAAGGCCCTGTTGNTGGAAATAACACCCACACGGTTNACTGAACATGGGA
AGTGGAGCTGGTGCNTTTNTAGAGTCTTNAACCCCATTGGNTGGCGTTCTTGGAACCAGA
GGTAGCCTGCATGC
Sequence 1078
AGGTACCCAGAAGAAGGTGCAGATATCTGATTGAAACTGTTCATCTTACCAACTCTTCCT
ATTGCAGAGAAGACTAAGGTCCAGAGAGGGATAGTGACTTTCCCAGGTCACACAGGAAGC
CACAAGAGCACATTGAAGCCAGATACACATTGTCAAAGCACGCATGTCCAGCCGAAGCAA
GGACCCGAAATGCTGATTGTTTCCCCTGCAAGGAGGATCCTGAGTTTGTCCCCGGGAAAG
GTTTAAGAGAACTGGCAGGAACCAGCCTTCATTCTTCTAGGTCCGGTTACCCTTG
Sequence 1079
CCGCGGTGGCGGCCGCCCGGGCAGGTACACACCACCACCTCTGGATAATTTTACTTTTTT
TATTTGAGACAGAGTTTCGCTCTGGTTGCCCAGGCTGGAGTGCAATGGCGCGATCTCAGC
CCGGGTGACAGAGCGAGACTCTGTCTCAAAAAAATAAAAAATAAAAAATAAAAAACAGCA
TTCCTTGGGAGGCTAAGCGATCCTCCTGCTTCAGGCTCCCAAAGTGCTGAGATTACAGGC
GTTGAGCCACTGCACCTGGCCTCAACTATTTTTTTAAATCATGTCTGAATCTTAATTCTC
CTAGGGATACTTATTCCCCAAACTAACACAAGTTGAGTGACGGGATGGGCCCACTACATT
TANTAAAAAGAAAGGTACCTCGGCCCGCTCTAAAAACTNGTNGGATCC
Sequence 1080
AGGTACAGCTAGGACAAACCTTGACTCCGGGTCGAGCGCTCATTGTATAACATGCAGTGG
CATGGCCCGTGGTTAGGAGGAGTCTGAAATCAGATTGCTGAGGGTTCCGGATCTGGTTCT
ACCACTCACAAGTGACTTCGTAGGCCTTTCTTATATTCTGATTTCTTATATCTGAACTGG
AGCTTACACATGCACCAGAATCCTACAGGGATACTGTGGGGGACACACAGCTTGAGGTAA
AGTGGTTACCAAGAGGCCAGGCAGTTGGGGGATCACCCATATCACAATAATTTGTCATTG
AGCATGTAGTTTCTCTCTTCATGGGATGACA
Sequence 1081
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGAGCTAACACTTATCC
TCCAGTGCTCTACTAATTGCTTGGTGCTATGTTGACTACTGGGAATGAACCACAAGATAC
ATCACTGTAAACTGCAGGGAGNGCTTCACTGATCATGAGGTNAAAATCTCCCCATCATCA
NAAAGAGAATTCTTTACTTAACTTAGTGGTACCTGCCCG
Sequence 1082
AGGTACACATTTTTTGTTGCAAATAGTCCTGCAGCTGGTTTTTCTAAAAAAAAAACCCCA

Table 1

AGAATACATATAAATCTGAGTTCCCTATGGCGCTAGTNTACTGGGCAGACTTCTGGTCTG
GGGTTCTTTCTTTNTTTTAATAGCCTTCTGAAAACCTCANTGCCACCAAATGCATGGATC
GTAGCACCTAGTTCTAAGTGTGTGCTATGCTTTGGTCTAATATCCAAAGAGATGTCTAAA
GCAANTGTGCTTGCTTTTCATGA

Sequence 1083

TTAGGGCAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTGGTCTCAAACTCCTG
AGCTCAAGTGATCCTCCCACCTTGGTCTCCCAGGCGTAAGCACTGCACCTGGCCTTAGAA
ACCTCTTTAAAAGTGGTTGTGGTATCCTCATAGAATCTAGGAATCCATTACTCAAAAAAG
CAAGACTGCAATGATACACAGTACCTGCCCG

Sequence 1084

AGGTCGACCCACGCGTCCGTGTATCTCCTACAGTTCATTATGCAGCAGACACGGATGTAA
ATGGGGACAAANATGAAAATACCNACTCAGACTCTTTGTGAGACGTTCANCATTTTTTCT
GAAATGGCGCAATGTATTCATTTTCCA

Sequence 1085

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTACA
GTGAAACTGTTTCTACTGTGGCTTAATTTGCAAAATCCAAGCAGATATTACTTTTAAAAA
TCCAACTATCTCTTTCAAAGGATTTGTAAAGTTGCTTACAGACATAAGGTGACATCAGAA
AAGCATGTTGGTATAATGCAATTAGCTAAGGTTTCTAGGAAGCTTTGGAATGTTTTGTTT
TTAAAGAAGGCATANATAAGTGCAAGTCCTACAAGTAATGAACTGTCCTAGAAGCAAAGA
AATTCATTAAATAGATCTCCTTGATTTCTCCTTCATGGCCCCATGTCCATAGAGATTGGG
GAATGTACCT

Sequence 1086

CGGGCAGGTACTGACTTAAAATAACAGAGTAACCTGTCTGGCTTACTTGTCTCTGAAAGT
GAATGTTCAAAGTGGGTGGAATNGAAATCACATATTAACGATAGTCCATACTTATATGCA
AAGCCATATGATTCCCTAAGCTACTTAAACTGGAATAAAGACACTAATAAAAATTTCATA
AAACATTGAACCTGGTGCCAGCCTCACATTAAACCCATAGGTTCTTCACGATTAAGGCTG
ACAATTTTAGCTACTGCTTAGAAAGTTGCAAACACAAATAGGGGGGAGTTTAATGTTCCA
TCAGAAATTAACCCAANCTGGTTTTGAAACTCTACTTGGCACTTA

Sequence 1087

AGGTCTTGAGTCGACCCACGCGTCCGCCTAGGTCTAAGAGCTGAAGCTATAACTGCTAAG
AGGCCTGGGACTCTGTGACACTGAAGTTCAGCAANTGTCTTAANAAACAANAACAGNAGG
GGCTTGGAGAGATGGCTCAGNNGGTTAAGAGCACTGACTGCTCTTCCTGAGGTCCTGAGT
TCAAATTCCAGCAACCACATGGTGGCTCACAACCATCTGTAACGATATCCGATACCCTCA
TCTGGTGTNGTCTGAAGACAGCTACNTACATAGAATAAATCTTAAAAAAAAACAAAAACA
AAAACAGAGAAATAGGAAAAGGAATGGGGGAAGAAAGGGAAG

Sequence 1088

CGGCAGGTCTTGAGTCGACCCACGCGTCCGCATTTATTGTGGGCCTTACTTCATGCCTTG
CTAGGCAANTAAAGATACTTTAANACAACCTATTNAATATAAATTCTTCAAGTTTTTTTC
AAAGAACCTTATTTTATTGGGGTGNTTGGGNCAGGGTTAAACGNGCCAGGAAAATNGGGA
GGNAAACCATGNAAAAAGNAATTAANCNATTTCCACCCATATTTTGGGGGGTTCCAAGAT
GGGANAAATTGGAAAATTGGTTTTAAGTAAGNAATTTCNGGGGTNGGTTCCTTGGCCCAN
ATGGCCTTTTAGGGGGTNNGGAAAAATTAACCTTTTTGGGGTTTGGGAACCCTTTTNGGA
AGGNAAGGGGGAATTTGCAAANGNGGAAGNGGGGGGCCTGTTTTTTCTTTGGGGTAAGGC
CAAAAAANGNGGGGNAATTTGNGGTTTTTTGGCCAATTGGGGGNGGTTGTCCTTTNGNGG
CCNNAGGNACCCGGGGGANAATGGAANGGGGGAAAAANGAACCANTGGTANGTCCCAAN
NGGNAAAGGNAAAANNGGGNAAAGNGGGGGNG

Sequence 1089

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATGACACAAAGTAACTTCTCAT
GGCTGGATGTGATGGAGGATATCCAAGCACCTGGCAGGCATTTGTAGAGATCCCCGCTAA

Table 1

AGCCCCCTTCAGCTATAGGATTCTATGATTCTTTTCCTGTGAAAATTTGGAACACCGTGA
TAGTGTANTTACCCTCTCCAGATCATAGGGGCACCATTTAATAACTTACTACATTAATGT
ATTAAATTGTACCTGCCCG
Sequence 1090
AGGTACGCGGGGAAGCAATGACGTGGGGAGAGAGCGCGGAGGAAGGGAGAGATCCAGAAA
GGTAGATTCTTCTGTGTAGGTGAGTGGATGAGATAATGAAGCAAGTTAATTTGGGCTCTG
CTGACTTATTTATCTGTCCCGGGCACTTTTCTCCGTACCTTGCCCGGNCCGGC
Sequence 1091
CGGCAGGTACAGTAGAGACACCATCTCTGTTAGGAAACTGTTAGTGGCTACCATGTGTCC
CTAAACTCCCTAGCTTGGTAGTCATAGCCTCACGTTCTGCTTCCAGTTACTTACCTGTCA
ATCCTTTTCTTCCTACTGATCCCTAGTGCACTTTTAACACATCCTTATCCTCTTTGTCTA
TGTCTGTTTGTCCTATTCTCTGCACCTGCCTTTCTCTCCCCTAGTCCTACTCCCGCATAC
CTTAAATGCTGCCAATAACTTGATTATGGCTTAATTACTTAATTATGCCAACTGAAAGGG
GTCTACCGTGTTAAAAGGGCTTTGGCCCCTA
Sequence 1092
NGATTACCCTNGTNCGCCCTTTTTCTTCCCTTTTCGNGGTAAAGCCGGTGGGNCGCCTTT
TTCTTTCANTAAGNCTTCAACAGCCTNGATATGGGTNATTNCTTNCAANTTCTCNGTGTN
GATAAGTGGTTCTGTTTTTCNGNCTTCCCCAAATGACCTTGGGAGGCCTTGGTTGGTAGT
CCAACCGAANACCCCCCCCACANGGTTTACAANNCCCCCGNACNCCGGCTTTGTCGCCTC
TTTAATTTNCNGNNTTAAANCTTATTCCGGTTACTTTGTAGGTTTCCCAAACCCCCGNGN
TTATAAGTAACCAACCNGAANCCTTTTAATTTCCGGCC
Sequence 1093
AGGTACTCTTCTGGTTGCCTTGACTCTAGTCCTGATCAGAGTGCCCAGCAAAGAACATTA
TACGCACTGTCCCGGCACTGTCCTGTGACATAAAAAGCAATTGACCTGATATCAGATTCC
CTGGGATAGGACCTGAAAAAGAGTTGAGGGCAGGCTCTGCATTTTGTCCTTTTCTGATGC
AAATGAGAACGAAATAATTTTTTTCAACTTACTTTATCCTATGGTGAGTAGAAGCCACCA
TGTTTCCTGTGGAAACCAGGGCGGTGGCATGGCTTCTGCTTCTGTCTGAGAGAACATTGC
TTTCCTGGGACTTATCCCCCTTTTA
Sequence 1094
GGCCGCCCGGGCAGGTGCAGAACGCTGGAGAGGGTGCAGTCTCTGTGAGGGTGAGCGGTG
TGGTGCCCTGGAAGGACTCCTTCCCACCAGTCACTAAGCAGCAGAGGCCAGGCAATCACA
GGCTAGGAGCCTTCTGACCCAGGAATAGGCATTCCCGCATCCTTAGACCACACAATGCAT
GCCCACTGTGTCACTGCAGAAGAAAGGATAAAGGTGGCCATGGCTAGCTGGCCATGCAAG
GCACTCACCAGCGTTAATGAGACCTGGCCGGNCAAGGCAGTTACTCTGATGGTAACTAGG
GCTTGTCTCCTTGCCATGAGAAGAGTTAGGGACACAC
Sequence 1095
CTGAGTGGCTGGGACTACAGGTATGCGCCATACCTAGCTAATCTTTTTGTATTTTTTTGG
TAGAGAGAAGTTTTCGCCTTGTTGCCCAGGCTGGTCCGAACTCCTGAGCTCAAGTGATCT
GCCTGCCTCAACCTCCCAACCTGCTAGGATTACAGGTATGAGCCACCCTGCCTGGCCAGA
TTTAATGAAACTTTATTAATCACTTAGTTNTGCTAATTACTATCTTTCCATAATGTTTTG
AATACAACGCTATTGTAGTTAATACCGTTGTTTTTGCGGTTATTTGCTTACATGTCTGTT
TCTGCTACTGAATTGTAAATCCCTTGAATATAGGGAAAATATATTTGTATCCCTACCATC
TGAAAAGAGTACCTTCGGNCGCTCTANAACTAGTGGATCCCC
Sequence 1096
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAGCCCTGCTTGTCTG
CAGATCCAGAGAGCCTTAATTGACAGATTCAACTGTGCCTATTCCTGAACCAATTCTGAT
CAAGAAAGTGGTCCCACCAGTCAGTGCTGACAGGAATTAGTCTTTTGCTGTCAACTAATG
GTTTCCAATTAAGGGCAACTTTTTCCACCCAGAGATATTTGTCAATGTCTGGAGACATCT
ATGGTTGTCACAGCTGAGGGAATATTAATTAATAGCACCTAGTGGGTAAAGGTGAGGAAT

Table 1

GTCATTAAATACCCTACAATGCAGAGGGTAACCCCCACCAACAGAGTACCTCGGCCGCT
CTAGAACTAGTG
Sequence 1097
CAGGCAGGTCTAGCTTGAGTCGACCCACGCGTCCGATTTAGAAGAGCCAGAAATAAAATA
AAATATCTTGGTGTAACTTTAACTAAGTAAGTAAAAGAACTGTATGACAAGATCTTGTCT
TTGAATTAAAAATTCTGAAGATGACAGTAGAAGATAGAAGATGCTCATGAATTGGTAGGA
TTAACATAATAAACATGGTGATCTTACCAAAGGCAATAAACAGACTCAACACAATAACTA
TCAAACTTCCAACATTTTTTTATTAATCTTGCAAGAACACAACTTAACTTCATAAGTTGA
ACAAAATAAAACAGTATATGTCCAGCCTGGCTTGGCCCTTCAT
Sequence 1098
TCTAGAGCGGCCGAGGTACTCAAAATCCTAACCAGAGCATTCAAACAACAAAAAGTAGGT
TAAAGGGGATACAAAACTNGGAAAATGAAAGNAAGGTCAATTAATTATTCACCTANTTTT
GCCAGTATGGAATNATGNATTAGGTTTTTACCTTTTAAAGNTGACCNCCCCAAAAAAGGT
TTCNCAACTCGGGAAGNAAAACCTAACCTATATAGNCNTTGAATTAAAAAACCAAANCTT
TTCCGAACCAAAAGGGGTNANGCCTTGGGGGGTTAATTAAAAAACCNTAAAACNTTTCCA
AANTTTCCAATATTAAAGGNCCCCTTTTCNCCTTTTTTNAACCTTCCAAAAAAGGGGGAA
TTNAAAATACCAAGGGGGNTNTTGGGAAGGNAAAAAANAAAAATATAATTTTAAGNGGGG
GGNAAAAAAANTTGGGAACCCAACCCCCCCNTTTTTAA
Sequence 1099
AGGTACACACACACACACACACACTCTGCAGAAATTACTCACAGTTTTGGCCTGTAAGCA
GTATTCATTCTTCCATTAAATCTGCTAGTATTAATATAGGTTTTCTCCCATTTTATATTC
CTTTGACTATTAAAGTAAGAATTCAGGACTTGGAGAGAAAGTGGAAAATTTCCATTTAAT
TCATTAAGTTTTAAATTATTAGCTATACCAGAACCCTTTATTATTATTTTATGGTGTATG
GATATTTTGCCTATATGTATGTTTGTGCACCATATCCATGACTGGTTGCTTGAGGTCAGA
AGTAGGCATT
Sequence 1100
GGGCAGGTCTCGTGCGGACGCGTGGGTCGACTCAAGCTAGCANATGGAAGCTAACTGCCC
ATTGATAAGTAAAGTTTTTACAAGACGTAGAACAGTNTTGTTCTNGTNATACATTATCTT
TGGTTNNATTCTTATGAGAATCATATTGAANCATCAGGCCATNNTTTTAAAGGGTGGATA
TTGGCGCGTGNAACCCTTTGGCTCCCATTTCTTAAATACCAACCAGGTATTCCGTTTGGA
ATAGNTTTGGTAACCAGGAAGTACCTATTCTTGGACCCCCATAAAAAAACCTTTAANGGT
TCTTACACNNTGGTTTTGGAAGNATCCTTATTAGGAAAAAAAAAGGGTNTTGGCTTTTTA
TAATTNCTNTAACAGNTTCGGTTTTAATTATTGTTGGTTGGGGGGGTTTGGT
Sequence 1101
CGGGCTGAGCCGGGAGCCTGAAGCCCAGCTCNGAGTTATATTGGGGACAGGGCTCCTTTG
GCTCNTGGTAATGGAGNAAAGGGCCTTGANGAATTTAAANGGGAACNCTTGAAGGGGAAC
CAAANNAAAAGNAAAGGCCACCCCTTCCAATTTTAATNTTGGGGTTGGTTGGTTCCCCTT
CGGAGAAATACCGAAAGNGGCNCCATNTNTTGGTTGGGGTTGNCCTTTANTTTCNAATTT
TNCCCCTTNCCCCGCGGGGGGGCTTTAAAAAAACCAA
Sequence 1102
GACGAGGGCAACCCAACACCCTAGCCTAAAGNCCCGTTGACAACTGCAGNCATGGGTTGG
CTTGGCCCACCGCCTTGGCANCCGNTCACGNAAGGAAAAAAAGNCCGCGGGCCCTTAAAA
GGCGGCGGAGGTTCTTGGGTTGAACCTTGGGGCANCCCCACCCGGTTGCCANGGCCTGGA
TTGGGGTNACCCNCAAAAGGCCTGTCCCCAAGGCCCGNAACCTTGGGGAAAANGAAATGG
TTCCTTTTNGNGNNAAAAAAAAAAAAATGGAACCCCGGTTGGGGGNANGGCCCCTTGGGGG
GGCCTTTGGGGAAGTCCNCCCCGNAAGGGGTTCCCCGGGCCTGNTTGGCCGGGGNCCCCA
AAAANTCCAAAATGGNCCANGGGGNTGGGGNCCAACCCCCG
Sequence 1103
AGGTACCTAGAATATTTATTTCAGATAATATCAAGATTTACCTATATTTCTACCAAAGAC

Table 1

AATGATAGGTTTTTTTTTATATAGTTGGAGGGCAGGGATAGTGTTTAAAGGTTTATGATG
TATAAGCACGCTTAGACACACCAGGAGAAAGTATCAGATCTCATTACACATGGTTGTGAG
CCACCATGTGGTTGCTGGGATTTGAACTCGGGACCTCTGGAAGAGCAGTCAGTGCTCTTA
TCCACTGAGCCATCTCTATAGCACTTTAAAAAAAATATTAAGGCATCATACAGCNTTTCT
GCCTCTATGTATGCCCTGCA
Sequence 1104
CGGGCAGGTCTTTGTCTCTCAAACTTTTATACTGTCATAGTTCATTTTTCTTGTACAGAT
GCTCTTTCAACTTTTTTTGAGAGTATATACATAACAATTGCAGTTGAAAGTAGGGTGGGG
TTTAGTCTCCTGGTCACAGTTCAATAAGTACGGACGCGTGGGTCGACTCAAGCTAGCTTG
TACACCTN
Sequence 1105
TCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGTT
GAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGGATGAGCTACTGAAAACAAAAAGAGG
GTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTTA
CTCATTCACACGTTAATGGAAGAGAAGGAAGTTTCCTAGAAAAATCCTCCCGCTCCACCC
TGCAAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAAACTATTTTGA
ATTGGTGGTGTTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTC
AGAGTAGCCATGTTACAAATTTTGTCCCAATTTCAATGGGGGAGGAATTATAACCAAATC
AAGTAGTGGTTGGGAAGA
Sequence 1106
CCGGGCAGGTACGCGGGGAGTTCTCTCAGGCTCTCCAGAGCTCAGGACCTCTGAGAAGAA
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GCATGTCTCTGCTGCTGTTTCAGGTAATCAGGTTGTACCT
Sequence 1107
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGAT
GGAAGGAAGAACTCGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTA
CTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGG
AAAATGCAGTAAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATCAAGAG
AAGATGAGAGGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAA
ACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGA
TGGTGTTTGGGAGGTGGAGCCCTTCAGAAAGGTAATTAATGCCCTTGTAAGAAAGAGGCC
AGNAGAGCTTGCCGCACC
Sequence 1108
GGGCAGGTACTTGTCCTGATGGGTCATCCAGAAGAGTTTCATGGAGATCAGTTCACAACA
TTGGACAGACTATGAAACAAAGTCTGTAATATCATTTATACTCAGTATTGGTAGGCTTTT
TCCTTAATACCCCCACTCCAACAAAACAGACCTGCCTTCACTTCTCTTGAAAATATTATT
ACCATCAGTAACTGCTTGTCTACTATGTCTCCAAGGCAAGCCACAGGCTATAAGCCAATT
CTGCAAAAGGGAGCAGCAAAAGAAATGCTTAGTGCAATTCCTCTATTTAAAAGTTTGCTT
GAGTTTTGATTATTTTTGTTATTTTG
Sequence 1109
AGGTCACGCGTCCGACCTAGCTTGAGTCGACCCACGCGTCCGATTTCTGGTTTCTTTGGA
GACTCGGTTGTGCCATGTGATGCTTTTCTGGAAACTGTCTTATGAGAGGAAGCTTTTGCT
GAAGCAGACACATGGGAGAATGTTTTGTTAAGAACAGACATGTAGTATTTTTCTAGAGGC
AGCTTGAATAAAGAGCATGTGGTATTTTGCTAGAGGGGACACTTGAGAGAACATGTGACA
TTTGGAAAGGATATATGTATAACCTAAAAGGACAGTGGCCAATGCTGTGTGGTATTTGGG
TGTGCCTTACCATTCTTTGCTGGC
Sequence 1110
TCGTGATCTAGATCCCTATAGTGAGCGGACGCGTGGGTCGACTCAAGCTAGGTCGGACGC
GTGGGTCGACTCAAGCTAGGTCGGACGCGTGACCTTCCCCAAAATTCTTCTTTTTTCAGA

Table 1

TGAAAGTCATACACTCAGCTTTCATATTTTAATATACATAAAACAGCTCAGTGACTGGGA
CACTTCCTAACCTCCATTTGGGTAATTCACTTCCCTCCAATAATCCTGAGTTATCATTTA
TTATATTTTGTATTTTACCTTGGCTGCACTGGAGCCAGTTGGGCAGCCCCTCTTGGGCCT
CACTCTCATGTTCCTACATGGGCAG
Sequence 1111
CGGGCAGGTCACGCGTCCGCATGCCTACCCGGGCTTTTTCTGACTCCGTGAAGCTGATCT
CTTCCTCATTCGAGGAAGGGTAAACCCTTTGTAGATGGGTAAACCCTTGTCAGTCAGAGA
CAGTAGCCATCCCCTGTAATTCCAGAGCGCAAGAGACTGAGGCAGGATAATTACCTAAAC
CTAGGAGTCCAAGATTTGGCTAACGTAGTAAGACCTGTCTCGAAACAAAACAAATCTTGA
GGGATGTGATGCTTGCTTAGTGTTAGATTGTGTGATTAGGATACACAGGGCACTCAGCTT
CCTATCTCCACTGAAGCAGTCAATTA
Sequence 1112
CTACTGAGACCATTACAAAATTAAATGGTGACTTTTTAATCTGGAATTGCAAACCGACAG
CANCCTGTCTGGGGAGCTCCATGTNATGAGTGTATGTCTCCAACAGNCTTCAATGACTGA
CAGGTGAAAAGCTGTGCCACAGCCTGGAATTATTATGCTGACACACAAAAGAGGGCGGGA
GTGACAGCGTGGTGATCTACCANTGCTGTCTGTGGGGNTAATGGTAAGCTTTCCCACTGC
TAATGGTTTATNNANAGAACAAAGAAAAGGAAAACGGTGCANGGGAAAATCAATANNTAT
TAACATAGTCATGGTAATGAATGCAATCCNTTATTTCTGGGAT
Sequence 1113
AGGTACATAAAACTTGTAGAGATTTACACACGCCAGCCGCACATCGCCCCTTCCCAATGG
CTTTACATCTTGGTGACCTTTCAGAAGCCAACGGCACCCTTCCTGTTGTTACCCGTAATT
GGAAAAGCATCAGAGATAAAAAAAAGTGC
Sequence 1114
CGGGCAGGTGAAACATTTTTATTATTTATTTTTCTTTGTTACAAAAGGACTAAGTGGTTC
TGAAAGCCAAGGCAGAGTTCATGTGTCTGGGCTGACATTCCCATGGCCTATGAGCACTGA
GCAGCCACAGGCTTTTCCAAGGAAGGCCCAAGGCCATCACATCCCCATCTACATCTACAA
TACTTGAATGTATTTACATGTGTTGTTCTTTAAAAAGGATTACACATTTTATTCTTTAAA
AATCTAAAAAATGATGGAGAAAAGGAACACAGTTTATCTTACACATTTGCAGGATATACA
AGGGTAACT
Sequence 1115
TTGTGTGGATTTACTTGTTGCCCACTGTCCCCATACCCTCCACCCCCACATGGTGTGCTT
CCTCCAGAAAGGGACTACTTCTGCTGACCACACAGAAGACGTGTGTAAAGTCTGTGTATC
AATGAATGGATTCTCATCTTTCATAGTTTTTTTTTAAATAGTTTTATGTAGTGTTTAACT
AAATTTCACTTAAAAAGATATTTACCAGAAGCTGANAGTANGGTGTGATGAGGTTGGGTT
CANGAAGGACTGNTATCACATGGCTTCCCTAAGGTTGTATATTACATTGCTAGGACACCT
GACA
Sequence 1116
CGGGCAGGTACTTTTCTCTTAACTTACCTGACTGAAGGCATCCAATCAGAAAGGAAAGTG
AACAAGTATAATGTTTCTAAGTGAGTCCAGATGGTAACAAGAATTCAAACATTATTCTTT
TTGTATGTTTAAATAAAACAAATTTTACATTTTATTTGACCAGCAGATATAACTTCCTGG
GCATAATTTTATTAGCAAAGAACTGATGATACTGGTAATAAAAAAAAAAAAAAAAAATGAA
AGGAAAAAGGAGAATGCACCTCAAACCAGAATACCATAACATGTTTTGTGGAAGCTGCAT
TTTATTTGAAAAC .
Sequence 1117
ACTTTTTTTTTCTCTGTAGGAAGTCAACGATAGAGTGACATGTTGGCTCTTTCATTTCAA
CTGANACACCTGGTAGCTATTGGATGGCATTTCTGTAATTATGAATAGTAGTTGTGATAG
GCTTATTTGCACCTTGTACATTCTCTTACTTGGGAACGCCATCTCATGCCATTTCTACGT
TTCTTATGCAGTTAGTTTGGGGCATGNGGTANTCCACTGGAAAATGACTCAAGCGTGGAA
TGTATTTATGATCACAGATAAGGAAGTGGCCGTCCACAAAGCTTTGGATGGTTGTATTTG

Table 1

TCATTTGAACA
Sequence 1118
AGGTACCTGCTTTGTGATACTGTGAAGATTAGATAAAGCAAATATCCACACAGGAAAGCC
CTGGGTGTTAGCATAAAGCCGGAGTTGAGAAGGCCAGCTTTCTATTTACGTGCTGAACGA
TGAATAGTTAAATAGTTTCCGTCTGGCCCACGTCCTTACACACACCCCTTGGGTTTTCTT
CTCTTCCCTGGTAGGACTGCATCGGACGCGTGGGTCGACTCAAGCTAGACCTGCCCGG
Sequence 1119
GCGGGCAGGTGTCCGCTCACTATAGGGATCTAGATCGGACGCGTGGGTCGACTCAAGCTA
GCTTGTACAAAAACTTTCAATAAAATGCTTCAAATAATGATTGTCCGAAGCTTGCTAGAC
ACTTTGTAAATGTCAGGAACACATTAAATATGTTAAATGAGCATGTCCAATATCCAGAAA
ACAACACGAATGATTTACTATCAATTTCACACATGCCTGGGAATGTCTCCCTGATGCAAG
ACAAAAAGGTCCTCTTTGACCAGAGCATACTGACCCCAAGTTTTGGTCCTGGCACAGTAT
TCATGGGTGCCATTCAT
Sequence 1120
GGGTACAATGGAAAAGGGGCTGTGTTACTAAGACTGACCAAAGAAGAGATTCCAATATCT
TATGATTTGTATGGTCACTGTTAACTGCAATTGTAACATGAACATATTGCCTATAAGCCT
GTGCTCTCCCCTTTAAACACAAAATAAAAAACAAGAAAAACAAAACAAAACAAATGAACC
AAAATAGAAAACCTTTTACAGCGTGAGTTGTTTCTACTTAGGATTGGACATCAGTGCATT
GATCTGAGTCTGGAGATCTTAGGCCAACTTAACAACCTGTGAAAACTTCTCAATGGGGTA
A
Sequence 1121
CGGGCAGGTCTCCGGCGGACGCGTGGGTCGACTCAAGACTTTTAGCCTCTAAGCCATCTC
TCTCACCCATTGATTTAAAATATTTTGCTTTGTGAATTTTGAATTGTAATTTTTGCTAAT
ATAATTCTATCATTTTCTACCTTCATTTTTCTCCTTTCAATCGCTTCTATCTATTCTCCA
ATTTTGCTGG
Sequence 1122
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCTGTTCTATAT
CTTGATTTTTTTTTTTCTACTTTACACATCTCATGAGTTTTATCCCCAGCACTGGGTATA
GAATTGCCCCATTCTTTTCAAGGGCTTGCTGTAAAGTATTCTGGGAACTGGGCGCACTCT
CTTTAACTCTTCCTCTGTTGATTGTTTTCAGTCTCCTTCTTTCTATAAAGCAAGTTAAAG
GAAACATTCTTTTAACAATGTTTTTAACAAGTCTTAGCAATGGTTTTTATTATCTGTAGG
ATAATCTAGGAGTAGAGTTGCCAGTTTTTAGAGTATGTGCTTTTGAAATTTTGTTTGTAT
TCACTTGGGCAGCAGTAAGTCATCTTTTGCTTATTGTCGNCGCTGTCTCGACCTGAAATC
CTTTCTTTTTATATTCTTGCCTTCTTTT
Sequence 1123
GCNCGAGGTACTACTGGCACTGAGCCAATGTATGCTATCAAGGAAAGCTTTATCTGTCAC
TGAGCAAAAGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCCTACACACAAACT
ATGAGGAGAGATCATTTCTTTTCTTTCTTTTTATTTAATTTTNNTTTTTTTTGGAANAAC
ANGGGGNTCNCCACNTCTGTCCGCCCATGGTTTAAGAAGTTACCCTGGCCNCGGGGCNGG
NCCGGNTACTTAGTAACCTAGTTGGGATTNCCCCAGGGCCTGCAAGGGAAATTTTCGATA
CTCAAAGCTTTATCCGGATACCCGCTTCCGACACTTNGAAGTGGGGGGNGGNCNCCCGGG
TAACCC
Sequence 1124
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAACCTGGGCG
ACAGAGTGGGACCCTGTCTCAAAAAAAATAAATAAATAAAAGAAAGAAAAGAAATGATCT
CTCCTCATAGTTTGTGTGTAGGAAAAGAAGTGATAAAACTGACCTAATTGAACTTCACCT
TTTGCTCAGTGACAGATAAAGCTTTCCTTGATAGCATACATTGGCTCAGTGCCAGTAGTA
CCTGCCCG
Sequence 1125

Table 1

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCTC
TCAGATTAAGGATATGTGTCTGCTAGGTAAAGCGACATCTGGATTCATTGTGTAGGATGA
AAGAAACCAAATTCTGACTGCTTATTTGTGGATCCGCCAAATCTGGCACGATGCCTATCT
CACGTGGGACCGAGATCAAGTCCTGGCCCG
Sequence 1126
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGATC
TCGGTCCCACGTGAGATAGGCATCGTGCCAGATTTGGCGGATCCACAAATAAGCAGTCAG
AATTTGGTTTCTTTCATCCTACACAATGAATCCAGATGTCGCTTTACCTAGCAGACACAT
ATCCTTAATCTGAGAAGAGCCCCCGCGTACCT
Sequence 1127
CCGCGGTGGCGGCCGAGGTACTGTAGTTAAATGTGGGTTCTACATGGTTCTGCAGTTTCT
AGCCCTATAAACCTCACATGCCATGTTCTCTCTCCATATATCTTAATCACCTTTAATTTG
GAAATAACAGATCTACCCTGCTTATCTTACATTGTTGCAGTGAGAAGAATGACTACGTTT
TTTGAAACCACCAGCGATGCTGTACCTGCCCGGGCGGC
Sequence 1128
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGCATTTTTGCTAACTGTAACTTCCCACTT
AATCAACAAAAACAAAAACACTCATTTCTGAACATTCAGTGCATCCATGATTAATCTTAA
TTACACCACAAAGGTATTTTTCAATGGTGATTTTGCGGGAGTGGGGTAACAGTTTCGAAA
GCAACATTGTCAGAAACATAGTTGATTTTAAAGGTTCTTTCTGGTGACTTTGACTTCTGC
TTTTTTAGAAGACCTTACACAGAGTTGTATTTATTTCTCCTGGAATATTTCAAGCAATTC
AGAGTGAAAGGGTATACATTCCAATTTGCGTATGAGATAAAATTTAGTTACATTGAGAAG
CTATTTTCTTTAGTTACAGGGAAAAAATTGTAGGGCTTTTGGAAGCCTCTTTGATTTCTA
ATAGGAGGA
Sequence 1129
CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGTGCCACACTGGGCC
AGGGTGGTCATCCTGAAATACATGTCCAGGGTCTTGTTTGTCTATGATGTGGGTGAAAGC
TGCCTCAGCCCGCACCACAGTAGAGAGCGGGACCACCTCACGAAAGTTTATAGCAAACTC
CCAGAGTCTAACCCTGAAAAGCANNCAGGAACAAAGACCTTTCCAGAAAGAAGGACATGA
ACANACGCTTAAAGAACGACCTGGGCTGCCAGGGTAAGAACCCTCAGGAGGCCGAGAGTT
ACTGTGCACAGTACCT
Sequence 1130
GGCGGCCGAGGTACAAGGGCAGCAGAAGCAACAAAGGCTGTGGCCAGCAACGAAGGCAGA
GTCCCCGGTAGGCGGAGGTCCCCGTGCACAGTGTGGTGCAGCAGTGAACCCAAGATTTTC
CTTCACAGGGCAGGGGAACTATTTCCTAATAAGCATTGGGCATTTCAGGCCACAANGGGC
AGCCATTACTCAGCACTTGCACTGACCTTGGGAATTTGCTGGGCAAGGAAAATGACGCGG
CCCTCATCATCGATGGCCACACCCTGAAGTACCTGCCCG
Sequence 1131
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACTTTCGTGG
CTTATGGGTATCTTAGTATAACCTTTTCTGGTTGAGTGAACTGTGTCATTTCAAAAGCCT
GAAGACATTGTGATGAGTGCTGCCTCCATAATGGCTACATTCTAGGGGCTTTGCCCTGAA
TCGCATATATTAACTCAAAAAACAAACAGTACCTCGGC
Sequence 1132
CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAAAACCCTAAAGCAAATGAACA
GCTTAACCGGATATCACAAAGGCTACAACAATTAACAGAGGTTTCAAGAAGGTCGTTACG
CAGTAGAGAAATTCAGGGTCAAGTTCAAGCAGTTAAACAGAGTTTGCCACCAACTAAAAA
AGAAGCAGTGTAGCANGTACCCTTGCCCGGGCGGCCCGCTCTAGAACTA
Sequence 1133
TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAACTTAAAGTAT
AATAATAAAACTAAAAAAAAAGTTATCCATGGCCTAGACAAATCAAAAAAGCATGTGACA

Table 1

CTATATGACATCACATTTCAATTTCTTGTAGAAAGGAACAAGAGTAGTTTAACACCAGCA
GCATTCATATGCAGAGAGCATCATAAGTACCTGCCCCGGGCCGGCCGGCTCTAGAACTAG
TGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnTGTTTCCTGTGTGAAATTGTTTATCCGCTCACAATTCCACACCAA
CATAC
Sequence 1134
CCGCGGTGGCGGCCGAGGTACCTACATTCTAAAAGTATAATAAAAATATACAACAATAAA
AATGTAAACTGTAGGCTATAAAGAAAAATAAGAATGTTAAAATAATAACAAATTGTGCCA
AGAAGTTATAAATCATCTGGTAGGCAGTCCACTGGTAAAATTAAGAGTTATACATAGAAA
TGACACACTGAAATAAAACTTTTATTTCTGCCTCATTTCTCAACTAAAACACCAGTGACA
CTTAGCACAAAGTTCACATGCACAACTGTTCAATCACAGTTTATAAAAGCACCTGAACAT
AACACAAAGCCAAAGCAATCCTGGACAAATGGACTAAAGCTGGAGACATCACACTACCTG
ACTTCAAAATATAATACAAATCTATAGTAGCCAAATCAGTATGGCACTGGCATAAAAACA
GACACATAGACCAATGGGAACAGATAGAAACTCA
Sequence 1135
AACACACATACCATAGGGATGAAGATAAGAAAGGAATGATTGTGACTCTGGATCAAAATG
CTCCCAGTTCCTGAAGGTGCATGATTTAACTGTGAATGCCAACTGAGATCCTAACATCCT
ATACAACCAAAGATGAACTAGTCTCTGAACTGGTAACTCATAAAAGACAAATCCCACAGT
ACCTGCCCG
Sequence 1136
AGGTACCCCCTCTCGTTCCCTTTCAGCTTTATCCGTGCTACATAGGGTTCACGTCACCCA
TCTGAATGTCCATCACATCATAACATCAGATCATGGTTGAGAGCTGATTACATGCTAATT
GCATAAACTCATTGAATTTTCACAACCAACAGACAAGATAGATATGGACTGACATCGCCT
CCATTACACTCATGGTACCTGCCCG
Sequence 1137
GACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCGATCCT
AGTGGGACGCGATCCAAAAATATGCCTATTAAAGATAATGCTTTGGTTATGTTTAATGGG
AAAGTCTATCTGTTGGCTAAAAAGGGGACAGATGTTCTGCCATCACAAATTGGCCAACAG
AATTCTGTTCTCCTGATACTCCAGTAAGAAAAGACACGTTACAGACAGTGAGTTCAAGTC
CAGTCACAGAAATATCCAGAGAGGGTTGTAAATATTGTTTTGGCTAAAAGTAAATCTTCC
CAGATGGAGACAAAATCACTTTCCAATACCCAGCTTGCTTCCATGGCCAATCTAAGGGCA
GAGAAGAATAAAGTGGAGAAACCATCTCCTTCTACCACAAATCCACATATGAACCAATCC
AGTAACTACTTAAAACAGAGTAAGGACTTTATTCACAAATCCAATCTTTCCAGTTGGGAT
TTAGTACCTGCCCG
Sequence 1138
CGAGGTACTCTAACCTGGGCAGCAGAGTGGGACCCTGTCTCAAAAAAAATAAATAAATAA
AAGAAAGAAAAGAAATGATCTCTCCTCATAGTTTGTGTGTAGGAAAAGAAGTGATAAAAC
TGACCTAATTGAACTTCACCTTTTGCTCAGTGACAGATAAAGCTTTCCTTGATAGCATAC
ATTGGCTCAGTGCCAGCAGTACCTGCCC
Sequence 1139
CCCTGAAGGCCGCTTACTTGGAACCGTATCTTCTAAATGCTCTGAAAACCTATCCAAAGG
CAATTAAAATCACAAATATCATTGAAAACATCTAAGAACTACGTGTAAGCACTTCGGGAT
AGTCAGGTAAAGGCGGCCTCTAATTATGAAGCATTTTGATAATTAATAGAATTCTAAGCC
AAAGCTTAAATCCGGATACACATCATAATGGTTAAGCCAAATAACACTTAATCATTTTAC
CTTTTATTATTGATAAAGACAACACACTGAAGTAGACAGACAGTAAAGAAAAAGTCCACA
TCTTTTTATTGGGTCCAAATAACCTGATTGNAAATACTTAGCCTCTGATTTTCATGTTTC
AGAATTTGTATGTTAATGACCTTAGTAAGATGTGGCTTTGGCCAGCCTCAAAAAGGGTTG
CTCTNCAGCCAGGGCCCCTTTTTTCCAGTTACTGCTCCCATCTNCTTTAAGTATATTCAA

Table 1

CTGGTGAGTGGAACTCTTTATCCCGTGTGACAAATGCGTATTGAGGCCCTAACATGCCCC
CAGACCTCAAGATGTGCTGCTCATACATTTGAAGGTAGCCCTGACTTGTTTNGGGGGGNG
TGGGGGNGGGCCTTTTCCATCAGTTGTNTTGGANGNTGTGGCCAGCAATCCATTCCAAAT
TGNCTGAGTTTTCTTNATTTTACTTTNGGA
Sequence 1140
AATTGNAGCTCCCCGCNGCGGCNGCCGANGTCAATACTAGAGAAGGGAGAGAATATAGTT
AGGACAATAAATTATTGAACAAGTGATTTTTCTGTGATGACTATACCCATTTTCCAAAAA
CTAATTTCATTTTTGGTGTGTGTGTGAAGAAAGTTTGGAGGCTTCAGTTTCAATCACTGT
CTCAATACTTAATTTTCCATTATTCACAGAGAAATTGTTTTTCTGGAAATTGGCAAGAGG
AAGGAAGTAATAATAAAAGATGACTTATGCAGATCCCATGTGACCATCTTACATTCTTAC
TCTTGTGCCACTGTTTCCCTGGCAGTCCGTTACTGGTTTAAAGAGCACTGGGATATAACT
CTAGAAATACGGATTATTTTCTCACCTCTGACACTCATTCATGGTGGAGCCCTTACCTTA
NTGCCAAGGTTATTGGCATTTAACTTTACTATTTAACCTTGCTGAACTACAGTGTCCTTC
CTCAATGTCAGAAGAAGCTTAGATAGTTAAATAACTTCTAAGGATTATCTATCTGGATTA
TTAGGATTTTTCATCATTCTTGGCGTGATTGTCACAAAGAAAACAGGACATAGCTAGGTG
GCAAGTGCATCCTCACTCAAAGTTACTTTTTT
Sequence 1141
TCACTATAGGGCGAATTGGGAGCTCCACCGCGGNGGCGGCCGAGGTACCAGTGAGGCATT
TCCTGATTTTTACTCATAATATTTACAAAGATTAAAAGAGATAAAATTCCAAATGTGAAG
GCTTAAATTGTTCAAATCCTTACTCAAAGAAATAGTGGGAAAGGTGGGTAAGTCAGAGTC
TGCTGCGTGAAGGAAAAAAATCAAGTTAATCTCTTCTGAAATTATCATGATTTGTTTGGT
TTAGATTCCCAGAAACANAAAAGANNAACANAAAAAAAGGTCCCT
Sequence 1142
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGAATGAGCTATAGCCTG
CAGTGACCAGAAATCTCCAAGTAAGGGAGTATACACTGAATGTCATGCCCTTCATTAAGT
TAAGGCCTGTAGTTNAAGTTCTTTCAGTATGTGCCATGAACAACAATAAACAATGTCCTT
GGTGTACTCCTTTGAAAGATGGACATTGAAAGTTAAAAATCAGTCACTATATAGGGCCTG
TTGATNGGAAAACCCATTTGNGGTTCTTACAAATTGTAAGCNGGAATGCCTT
Sequence 1143
CCGCGGTGGCGGCCGAGGTACACCGTAGCTTATTTCAAGTGACACAGACCAGGCAACTGA
CAAATACCGACAAGTAAATATTGTTCATTTTCCTAGGTAATCTCTATAATCAAGGGGACT
GATTTTTATTCTGGAATTTTCCCCAAATGTTTTCTTTGTAGAAATTATGTTGCTCTCAAT
TGTGTGCATGGTAGTACCTGCCCG
Sequence 1144
CCGCGGTGGCGGCCGAGGTACTCTAACCTGGGCAACAGAGTGGGACCCTGTCTCAAAAAA
AATAAATAAATAAAAGAAAGAAAAGAAATGATCTCTCCTCATAGTTTGTGTGTAGGAAAA
GAAGTGATAAAACTGACCTAATTGAACTTCACCTTTTGCTCAAGTGACAGATAAAGCTTT
CCTTGATAGCATACATTGGCTCAGTGCCAGTAGTACCTGCCCG
Sequence 1145
AGCGGCCGCCCGGGCAGGTACTCTGACGGAGTTACACACCCCCAGCTATGAAGTAGTCTT
GCCAAANCAATTGAACATGACATTTCATNAAGCTCTTANAACCGACTATACCAATTTATG
GNATAAACAGAANGACCACGTGAAACAAAANCTCATTAANGTATGCTCATANNGCAAAAA
TTCACGACTTATAAAAAANACTTTTNACTGGGACCAATAGCATCNGCANGTTTTCTTGNC
ANACAAAAATATTGANANAAANTGTCAATAANGGGGTAATAGNAGGAACANGTANTAANT
GTAGATAACANNAAATTGGAATTATGGAGGGNGNAGTAGTAAGGAATTCAAAGCGCATNG
TCTANCAAACCGGTGGTTGGGGAATGGTTTAATTTTTNGGTACCCCCCTTAGATTTTGGA
AANANAAAACCAAGGTTACNTTAAAAANAATTTTTNGNAATTTCCCCTCTNTTTTNTTTC
CTCTTANTAGGAAAAACAAACCGGCANAACCTTCCAAGGGTTTTTNAANAANANGGATNA
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Table 1

NTCCAATTNTTAAAATTAAAAT
Sequence 1146
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAATTATGATTTT
TAAAAATGCAATGGCATGAATAAATAAATGAGTATACCCATTTGTTGATCTTATTCCCTA
TTACTTCAAATTTGTAAGTATCCTTAGTGGAAAAGAGTAATGTTCATTTTGGAAATAATC
ATGTCTCAACATGATTGGGGTCTACTCAAGGGGGAGGGTGGAGGAAGAAGAGGAGCANA
AAGGATAACTATTGGGCACTGGGCTTAACACCTGGGTGGTAAGATAATATGATCAACAAA
CCCTTGTTACACATGTTTACCTATGTAACAAACCTTCACATGTACCTGCCCGGGCGGCCG
CTCTA
Sequence 1147
CCGCGGTGGCGGCCGAGGTACTTGCAAGAAACCTCAGGACTTGAGTAACAGCAACATGGT
AAGTTTTCTAAGTTTTCTTTTTGTCTCCCATATACGCTGGGCTGTGCTGGAATCACCAAC
AGGCACAGAAAAAAATGACAACAAAACAACAACAAAACCCCCAAGAATATCCTGTTGTCT
TTGGCCAAAGTTCAGGAAAGGGGAGCCCCAACAGAGACCCAGTAGGAAGCTCTAGCCCCT
GTTTTGTACCTGCCCG
Sequence 1148
TNGGAGCTCCACCGCGGNGGCGGCCGAGGTACTTAGCTTTGTCGTCTTTCTTTCCTCCTC
TTGTTNGAGTTTAGTATTAATAAAAGTTGGACTGAGAAAACCTTTTTTTACAATCTTATG
GGTTATTTTTAGTGTAAACGTTTTAGAAGTANAATATACATATAAAAACTGCACAGATCA
AATGTGTGCATCTCAAATGGTGTTCCATTTTCAAAATATGAATACATATGGGCAGCATTT
ATATTTTTAAAAAGTCAGAAGGTGCCTCCTCATGCCCTTTCCACTTCTCACTCATTGTCC
CTCAACCCAGGCATAACTACTCTCCTGACCTCCAACATCATAAACTAGTTTCACAAGCTT
TGAAACTTTATCCAAATGAGTCATACAGGATAGATGTTCACAGAGCCTACTTAGATATTA
TGGATCCTTGCCAGGTAT
Sequence 1149
AGCGGCCGCCCGGGCAGGTACCTTGCAAGTATTAGACTTAGAATAAAACTGTGTTGACTG
ATATAACTGATGCATGGTTGGAATAGTAGGTTCTTGGGTAAATTAATCCTAACATCAATA
GCTCAATTCCATCATAGTCCTTGAACAGGCAAAATGTATGCTAATCACAACAGCCGTACC
T
Sequence 1150
AGCGGCCGCCCGGGCAGGTACCTTGCAAGTATTAGACTTAGAATAAAACTGTGTTGACTG
ATATAACTGATGCATGGTTGGAATAGTAGGTTCTTGGGTAAATTAATCCTAACATCAATA
GCTCAATTCCATCATAGTCCTTGAACAGGCAAAATGTATGCTAATCACAACAGCCGTACC
T
Sequence 1151
AGGTACTATTTTCAGATGGTAGGGATACAAATATATTTTCCCTATATTCAAGGGATTTAC
AATTCAGTAGCAGAAACAGACATGTAAGCAAATAACCGCAAAACAACGTATTAACTACAA
TAGCGTTGTATTCAAAACATTATGGAAAGATAGTAATTAGCAAAACTAAGTGATTAATAA
AGTTTCATTAAATCTGGCCAGGCAGGGTGGCTCATACCTGTAACCCTAGCAGGTTGGGAG
GTTGAGGCAGGCAGATCACTTGAGCTCAGGAGTTCGGACCAGCCTGGGCAACAAGGCGAA
AACTTCTCTCTACCAAAAAAATACAAAAAGATTAGCTAGGTATGGCGCATACCTGTAGTC
C
Sequence 1152
CCGGGCAGGTACCCTTGGTTTCTCAGACAACTCACTGATTTATGGTCTTGAGACCATAAA
CTCATTTTCCTTATATGAATGACATTTCCACATCCACAACAATACCACCAAATATATGTA
TCTAGTTCTTACTAACTGCAAATCCTCAAAGTGAACTGCGTGCATTTTAATGTTGCGTAG
TTTGCTGATTTATGATTTCCCTTAATGTACCT
Sequence 1153
CCGCGGTGGCGGCCGAGGTACCAACCAGGGCTTTGATTTTCATGCTGTCCCAAAGTTGCA

# Table 1

GACATGTTCACGACACAGCTGCGTTTGTTCCTTCATCTTGTTCAGCAACCTTTGGTAAGA
AACTACCATATTTAAGATTGGTATTCTAGATCCAAAAGAAAAATGCATGTGTTTGCTGTG
TGTGCATGGGCACATGTATGTGTATGTCTGTCTGTAAGGATAGAGAATGGCTGAAAATTC
ACAGGTTTTTAAATTCTTAAAAACAGGAACGAAGGAATTCTAACAGCTATGACTCAAAAC
AAGATTCTTAATAAAGTTNCATGACAANGTAAAACAACTATTTNAATTGAGAATGTTAAA
TAGCCTTGGTACCTGCCCCCGGCCGGGCGNTCTTAGAACTAGTGGGATCCCCCCGGGCCT
TGGAAGGGAATTTNGATTNTTNAAGCCTTTATCCGAATANCCCGTCCCACCCTTNGAAGG
GGGG
Sequence 1154
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGAGGCAAAAAAGCAATCAGTATGACTTGAA
CTGCTGGGTTTAATTACTCAATATAACACTTGCCATTTAAAGATCCATATGCCCATCAGC
ATGGCAACAGTCTCTCATAAAGATTCCGGTATCATATGGCACAATTTGTACCT
Sequence 1155
CCGCGGTGGCGGCCGCCCGGGCAGGTACATACGTAACAGGGACTGGACCACTCCTCCCTT
AGTTTGTTGTCCATTTCTCCAGTCAACATGTATTTACTGAACACCAGTTATGCATAAGGC
CTTCTGCTGTCTCTCATTAGCAACGGGAGAGTGAACCAGACTAGAAAGGACAGACAGGTA
ACTGTCTATATCTAAGAACTCTTTCTTTTGGAAATCAAAACTCATCTGCAGAGAATTAGT
CTTGCCTCTGTCCAATTTTCCTCCTTATGGCCCCCAACTTCCACTAAGGGTCATGAGGTT
GGAGGAGGGCTCGAGGGGCCACTGAGTGAATCCCTCTGCCTAGAATCAGCAGCACACTTA
TAGGATCCTCAATGCACAAGAACCTGTCAACACANAACAGCTTTCAGAGAATACCTTCCC
T
Sequence 1156
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AGGTATTATATGTGAAAATTTTATTTTAGCTATACCTTTTGTGGAAAAATTTTTACAATA
TATGCTTTGGTTATTATTACTAGCATACTGGCAGTAGTTGAGTGAGGCTATGAGATGATC
GAAAAATGTAGTTTGNTGTCCACTGCGCTTTTTGAATTATTGAATCTACTTGAGTCGATT
CAGTAGTCAGTCTTTGTCTTCTTTCAGTGGNGGAAAGCCGCTCTCTTGCTGCTGTTAGTA
TCCTTGCTGCCCTCTTTTAAATTATGCAGCTTCTTATCTGTGGAGTAGGAGCTTCCTGAC
ATTGAATGTAAAACAGCTAAAATGGC
Sequence 1157
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCATACAACATAATT
TTAAAAGCTTCACTGTTTCAATAAAAAAACTAATATAATCATGTTTATCTGACAGACCCA
TTGCTTTATTCATTATAATCAAATAGAAGAAGAGGAAATTTATGGTGTTTTGAGAATGCA
TGCAGGTTTTCTTTTTGTTTTTTCTTTTTGAGGTGTGAATACAGTAATAAAATACTGACT
AATGCTTGAAAGGCTTGAAGAAGGGACTAGCGGTGGAGTCCAAGGACAAGAAGAGATGAG
AAGCTTTTTTTTTCTTTTCTTTTCCTTTTGGTTTCAGAGGGAAGAAGCTATGTAAATTGGA
CTGGGAATTAATATCCAGCTTCAGTCAGAGAATAAGAAATAGCTTGAAAGTACCTGCCCG

0

Sequence 1158
CCGCGGTGGCGGCCGAGGTACTTTTAAAACATTTTTTCCTTGAGAAATCATTGCCTAAAT
CTCATACATATGTGCTTCTCTGCAGAAAAAAAAATGAAATAAAATAAAAATCTTTATTTC
CAATGAGCTAATGAGGAAAAAGGGGATGATGAAAAAACAGGGAGTGGGAGCAATTTTGGA
AATGGAAAGAATGCTGAATACCTACATGATGCCTAATTCAGAAGAACATTCTGGTATGTA
GGACATTATTTTCAACTCTATCACTTACGGCAGATTTTTTTTTTATATGCAGATGTATCT
CTACTCTCTAAAGATGTACCT
Sequence 1159
CCGGGCAGGTACTGTGTATCATCGCAGTCTTGCTTTTTTGAGTAATGGATTCCTAGATTC
TATGAGGATACCACAACCACTTTTAAAGAGGTTTCTAAGGCCAGGTGCAGTGCTTACGCC

Table 1

TGGGAGACCAAGGTGGGAGGATCACTTGAGCTCAGGAGTTTGAGACCAACTTGTACCTCG
GCCGCTCTAGAACTAT
Sequence 1160
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AAATGGTAAATTTTATGTTACATGTATTTTACCACAATTTTTTTATAAGACCAGATTTTA
AAGAGAATCAAACAGAACCTGCAGAAATAAAAGACATAATAATTGAAATTAGTTCGATGG
ATGAATCAAATAGCAGATTAGCTCAGCTAAAGATGACTGTGAATACACAAAATGTAGCAT
GGTGATACAAAAATTGAATATATCAAACAGAAGTTATGCAACATGAGGACAGAATAGAAT
GTCCAACATATCTAAATACCATTCAAGAGGGAAAGAAAAGAAAAATGGAGAACCGAGGCA
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Sequence 1161
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTATTCCCATTTTATAAGCAAAGAGGTAGGAC
TGGAAAGGTTAAGAGCTTACTCAGCGAGAGAGAGCTGGTAAATAAAGGAGTGAAGATTCT
AACCCAGATGGAATGTCATGCCGAAGCTATTAGCCACTAGAAGATAATACCTCACTTGCA
CATTCTGCTGCTGCTGCTGCTGCACCTGAGGCCTTCACCTGGGCTCGGTGGTGAATGCCC
TAAGATGGTTCAAAAACTGCATGTGAAAAACTGTTTTAGGCCAAGCTATCAACAAATCTT
CTGGTGATATCAAACCTGGTGGCACAGATAAGAGAAATTTGAAAGTGACTTTCAAAAGCA
GGGTGGAAGCCGTAGTACCT
Sequence 1162
AGGTACTCCATAATGGATGTGGGCCAGGGTAAAAGCAGTTGTTAATGTATACAGGAGAAT
GCTCTCAACGTAAGAGGCTACTCCTAGGTTTACCACTAAGACAACCAAGAAGAGAGGAAC
CAGCAACCAATTCAAAAGTTGGGACACCGGGTACCTTGCCCGGGCNGGCCGNTCTAGAAC
TANGTTGGATCCCCCGGGGCTGCAGGNANTTCGATATNAAGCTTATCNNTANCCGTCGAC
CTCNAAGGGGGGGGCCCGNTACCCAGCTTTTT
Sequence 1163
CCGCGGTGGCGGCCGAGGTACATTTTGAACAATCTACTCTTCAAGTGGATCATTTACAAA
ACAAGAACATAATTCCCTGAATCAGTAAATTTTATTTTCATGAAAGGATGACAAAGAAAT
TCCATTTACACTATCACGATTTACATTTTCCTACAATTCATGCAGCTTTCTTCAATTCAC
AATCTACAAACCACAACAATGCACAAATTTGATGTTAGAGGATACTTTAATGTTTAGTTC
TCATCTCAACAGTCACTGTTGCTAGTGTCTCTCATTCTCACTCTTCACTGTTACTTAAAG
AACAAAGAACTAAAGAAGCCAGAAAGAACTAGATCAAGCGATGAGACCAATTTTCAGGGT
AAGGCATAATAACATTAGCTAGTCAAAAACTGGAGTATTTCTATCATTTAATCCTGCAAG
ACAATAACCTNCTGTTTTCCCTCACTTTCCTTCCAATAACTTGACAGAAGTCTGGGGAAG
GATGGATCCCAAGCAGAAAACCTTCACAAATGTGAAAGAAAATGGAAATCCTAGCATAGT
CACATGACTAACTAGAAATCCCAGAACTCTGTCAACAACCTTTGTTTTCAATGCAGAAAT
CATTTTTGTACCTGCCCGGGC
Sequence 1164
ATTGGGAGCTCCCCGCGGTGGCGGCCCGAGGTACACTGATCGTTTCTGCAGCTGCAGATT
CTGCTGTTCGACTCTGGTCTAAAAAGGGTCCAGAAGTAATGTGCCTTCAGACTTTAAACT
TTGGAAATGGATTTGCTTTGGCTCTCTGCTTATCTTTTTTGCCAAATACTGATGTACCTG
CCCG
Sequence 1165
CGAGGTACGTTGTCAGGACATTTTGTAATTCGGTATTCTTGGTCTCCTGGCCCCAATTCT
AAAAAAAGTTCACGTTTTGATGAAAAAAAGATATGGGCATTATGGATGTTGAGGAGATCA
CAGCTCAAAAGATTGACAGGGGCCCCAGGGCATATAAGAAACATATGGTACCTGCCCG
Sequence 1166
CGGCCGCCCGGGCAGGTACTGGTCTGNCTGCAGAGGCACCAAGATGATATCTTCCTCCAC
TGTCAGAGTTATTTANGAAAAATAATCTCTGGCATANGCCGAGTGCTCATAAATACTTCA
NGATGAGACAATAAAGCCGCTCCCAGGTCCTGGCATGGCCCAACCTCAGGACACTGGCCT

Table 1

ACACATTTGCAGGTAGAAGCAAAGGCCTGCGTCAGGCCTGTGGCCAGCTTTTGCCTGTGC
GGGAGGCTCTAAAATGAAGACAATCTTACTCCAGGTCTCCTTCCACTTTGTTGCCTCTAG
AATGTCATCTCCCTCCCCTCCTCTNGGAAAGGAGTCACTCCACCCCAACCAT
Sequence 1167
CTCTGCTCTCATTTCCTGCAGATTCTCTGAAGCCTATCTGTGCTTCTCAGTATTCTCTAG
CGGAGTTGAAAAACGCCCCTTAGAGGTGCACAGTTAATTATAGAAGCTGTTAGCTTTCCC
ATCTGTAGTCATGCCCTGGAGCTAAGAGAAGGACTTGAATACAGAAGAGGAGATGCCCCC
TGTACCT
Sequence 1168
CCGCGGTGGCGGCCGCCCGGGCAGGTACTACTCAGAGAATTTCATTGCTACTGCCTGTTC
GTTAACCTAGCAAGTGAGTAAATTGAGGCTTTAATTAAAAAAAAAAACGGTTGTTGTTCT
TTGATATACATTTTGACATAGCTCAAGCTTCAACCCTGCCCAGTTCCTATGCTCAGACCC
CATCTTCAAGGATGCTCCTCCTGCCTAACTCCTCTCTCAGAATATTGTTTTTTCCTTTCC
CGTTTAATCCCCAGGCTCAGCTCCTGGGACCAATCCTGGTTCAGGCTCCTGTTGCCTGCC
TCATCCCACAGCCGTCCATAATTTGGTGGTTACCGTCATGCACCTGAAGTGGTAGTGAGC
ATTTATAGTAATAAAAATCATAGTCTCACACTGCCATT
Sequence 1169
CCGCGGTGGCGGCCGGGCGCCATGGCTCACGCCTGTAATCCCAGCATTTTGAGAGGTCGA
AGCGGGCGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACACCA
TCTCCACCAAAAATACAAAAAACTAGCTGGGCGTGGTGGCGGGCGCCTGCAGTCCCAGCC
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AC
Sequence 1170
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CCTTTATTCCAGTTCCAGCTTGCTATTTTTGTTTGATACATTTGCAGATTCACTGAAGAC
CACCCAGCCCATATATAGCTAGCTCTTCTGTGAGATGTGTATTTAACCCTGAAAAAACTA
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GCCTGCTTTGGCTTTTAATAATAACCTGGNAACCCCTTGGCCCCGGGGCCGGGCCNGGTT
CTTAGAAACTTAAGTGGGGNATCCCCCCGGGGCTTGCAA
Sequence 1171
GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACATCAATAA
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AAAAACCTAGTTCTCTTACCTAAAAAAATNCANNAAAANANAAAAGGAATGGAAAGGAAA
AGAAAAAAAAAGTTACCTGCCCGGGGCCGG
Sequence 1172
CCGGGCAGGTACCCTCCAGGCCCTGTGTATTATTAAGATCTTTTAGTAGCGAGTTGCTCT
TTCTCTGGGAAATCGGCTGTTAAAGTCAGAGGGAGCTCTTAATAGTTTGCATGGTATTTG
ATTAAATGGAACAGTTGGATCAGTACCT
Sequence 1173
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Table 1

CAGATAATTCTCCACGAAGCCAGAAAACTAATAAATGAACAACTTGGGTGAAATGTNCCA
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GAAGGCATTGGATTT
Sequence 1174
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TGTGATATTTAGTAGCCCANAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATG
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Sequence 1175
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TATGTGTATTCTGATTGTTTATCTGTGTTTGGCATATAATAAAAGTTGATTGAGCTGAAG
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ACTTTTAATCTGTCTCTCCTGTGTGAAACTTCTCTGAAACCCTTACCAGCTGNCTGTGCT
GCTACTTGTCTGNTGTACCT
Sequence 1176
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Sequence 1177
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GGGATAAAAATAATGCCGGAATCACTCTCCCCCATTTCCAACTTCCACTCTCTTCATGTG
CGCAGCTGCACTTCGTACCT
Sequence 1178
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TCCGTTACTGGTTTAAAGAGCACTGGGATATAACTCTAGAAATACGGATTATTTTCTCAC
CCTCTGACACTCATTCATGGCGGAGCCTTAACCTTAGTGCCAAGGTTATT
Sequence 1179
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TNTGTCCTGTCACACTGGCCTGTTATTCCTGAGCTGAGCACTGTAGCATGGACCANACCC
CACACACCTCTCTTCTTTTGCCAGAGGCTCATGGCACTTCTGTAGGTCATTTTTTTTTCTT
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Sequence 1180

Table 1

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ATAACACTTGCCATTTAAAAATCCATATGCCCATCAGCATGGCAACAGTCTCTCATAAAG
ATTCCGGTATCATATGGCACAATTTGTACCT
Sequence 1181
AGGTACATCTCTAGCTGATGATTCAAAAAAGAAACCTTTTAATCTCACTCCACTGATCAG
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TTCAGACTCCAGTGGCCGAGAATCTAGAGTTAGCAATGGAAAAATTAGTCTCGGGCTTCT
GTTTCTGCCCACAGTTTTCAAATTAAGAACAATGTGTTTGCACTTAATGAAACAACCTCT
ACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCCTGGCGGTCCCCTGTAAG
TACCTGCCCGGGCGGCCGCTCTAGAACTAGT
Sequence 1182
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGATCGTTTCTGCA
GCTGCAGATTCTGCTGTTCGACTCTGGTCTAAAAAGGGTCCAGAAGTAATGTGCCTTCAG
ACTTTAGACTTTGGAAATGGATTTGCTTTGGCTCTCTGCTTATCTTTTTTGCCAAATACT
GATGTACCTGCCCG
Sequence 1183
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NTCCCGCTCCTACCTTGTACCGTAGCCATTACACCAAAAAAATTCCGACCGTCTCAAAGT
TCNAGNAAGNGTTGGGCCGANANACNCCCGAACCAGGGACCTTATTAAAAGGAATACCCC
AAGGGCCGT
Sequence 1184
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CTTCAGGAACTCTAAGTTGTACCTGCCCG
Sequence 1185
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Sequence 1186
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Sequence 1187
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CNNCCTTTCAAAAGGTTCNAANGAAGGGGTTGGGGNCGNAAAAAACCCCCCGGNACCAGG
GGGAACCTTAATTTATANAGGGAATTAACNCCAAGGGGGCCGGTTNTTTTCCCCCCCCCT
TGG
Sequence 1188
CGAGCGGCCGCCCGGGCAGGTACCTTGGCAATAAGTTGCTAGTTATCTCAGCCTATAAAA

Table 1

TGTAGGGCATATGGACATTAAGATTATAAATTAGCTTTGGTGTAATCAAATTTTATAATT
TGTAAACTGGACTATGTTGTGCATCCTTTCATAGTTTAGGATGATTAAGAGTTTGGACCT
TATAAGTAAACTGCCACATTTTGAATCATAGGCCCCAACTGGGTACCT
Sequence 1189
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TATCTGTCACTGAGCAAAAGGTGAAGTTCAATTAGGTCAGTTTTATCACTTCTTTTCCTA
CACACAAACTATGAGGAGAGATCATTTCTTTTCTTTCTTTTATTTATTTATTTTTTTTGA
GACAGGGTCCCACTCTGTCGCCCAGGTTAGAGTACCT
Sequence 1190
NCACACAACAATACAGAGCCCGNNGTANCCATTATANTNTGTTAAAANGTNCTNGGGGGT
GCCCCTAAATGGAGTTGTAGCCTAACTCCACAATTTAATTTTGCCGTTTGCGNCTTNACN
TGCCCCTCTTNTCCNTGTCNTGGTAAACCCTGTNNTTTGCCAAGCCTNACAATTANATGN
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CCGCCTTCTTTTCCCG
Sequence 1191
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CCTCAAANTTCAANTANGGGTGGGGCGTAAAAACCCCCGGACCAAGGGAACCTTNTTAAA
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ACCCCCGGGAATTAACCCCTNGTTCCCCCNNCCCTTTNTTCTTCCCCCCTTTT
Sequence 1192
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TTCCAGCACACAATAACTCAACAAAGGATGCTTAAAACATTAAAAGGATCTTTACTATCC
TCTTGGCAAAGTACCTGCCCG
Sequence 1193
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AGAGCCAACCAAATCCAAGTGGGGTTTTGTCAGGAACGGTATTGGAAACTCTGAACTAGA
TAAATAATTCAAAGGATATTAGCTAAAGTGATCAGGGACCAGGACAGGAAGGTACCTGCC
CGGGCGGCCGCTCTAGAACTA
Sequence 1194
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TCACTGCAACAATGTAAGATAAGCAGGGTAGATCTGTTATTTCCAAATTAAAGGTGATTA
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GTAGAACCCACATTTAACTACAGTACCT
Sequence 1195
CGCGGTGGGGCGGCCCGCCCGGGCAGGTACCCTCCAGGCCCTGTGTATTATTAAGATCTT
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Sequence 1196
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Table 1

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CNNAAAACCTTGTAGNAGNGNGAAAAGAAAAATTTTTCCTTGNTTTGGCTTTTAAAANAA
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CNCNTTCTGATAGGGNGGGGGGGGGCC

Sequence 1197

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TGAAACAATAGATGCACAAATATGAAACGATTAAACTAACTTGATTAGCTGAAGCCAATA
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CTTGAGATAAAGGTGTCTGTCCCATAGAAGGCTCAGTTAGGTAGGCAGTATCATTNGCTC
ATTTGCTCCAGCCAGTNGGAGGGTAAGATTTTCCATTCTTAATTTTCTCATCCACTAGGA
TCATCAGGTAGAGAATGGAGAGATTGGGGAACC

Sequence 1198

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAACTTG
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ACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGGTAAGCCCT
TGGTTAAATTTATTGGCTTCATTTATGTATCTCACAACACTTCTTTTCTGTTTTAGTTCT
AGGAATAGAAACTTACTTTTGGAAATACAGTACCTGCCCG

Sequence 1199

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TNCAAATTCCAAGGGAGGAGAAGATGAAATTATTACCTAAAACCCAGGCTTCTCCNCAAT
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TAAGNCCAACCTTCCCCTTAATTAACCTTTTCCTTCCCCTTTTTCAAAAAACCTTCCTTA
AAATTTTGGGGGGTGGGTTNCAACCNCNTTTCCCCTTGGTTAAGGGGGAATTGGCCTTTA
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Sequence 1200

AGGTACGTATCTAAACCCCGTGAGCTAGGCACTCCCCACCCATCTGCATACACTTTGTCA
TCTTTGCAACTACAGCGTTTAACAAGGGCTGGGAGATTTCAACTAAAACAGACAGAATGA
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ACCTATAGGGATAACTGTCTTTCTAAAGGTCTAAAAACAAACTGTCCCCAGTTCATTAAC
CAACATATTTATTGCCACTAGAAATCAATTTTCAAAGAGTGGTAAAAATGACAGGGACTG
TAGCCACTGCCCAAAACCCGACTGACAGGGTCTCAGCACTAAATCAAGTAAAATTTAATA
AGTGTCACTGTCCCAGGTGTGACAGCTAGGATA

Sequence 1201

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GTCTTGTTTGTCTATGATGTGGGTGAAAGCTGCCTCAGCCCGCACCACAGTAGAGAGCGG
GACCACCTCACGAAAGTTTATAGCAAACTCCCAGAGTCTAACCTGAAAGCAGCCAGGAAC
AAAGACCTTTCCAGAAAGAAGGACATGAACAAACGCTTAAAGAACGACCTGGGCTGCCAG
GGTAAGAACCCTCAGGAGGCCGAGAGTTACTGTGCACAGTACCT

Sequence 1202

Table 1

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AGGGCAAGAGAAATATTTAAAGAAAAAAGTAATTGAGAATTTTCCAAATCTGATGAGAAA
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CAAACNTTCCACACAAAACCCATCCAAGTACCTCGGGCCGCTCTAGAACCN
Sequence 1203
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Sequence 1204
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CATTTGTTTAACAGGTCAAATGAAGAGAGGAAATTTGTGTGCAGTCACGGCAAATACTGC
CTCATTTTACCCACTGTGATACTAAAGGTACCT
Sequence 1205
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CAGTCTCAAAATTCACCTACCTTAAAACCAAGCGCGTACCT
Sequence 1206
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AANAAGGGCGATGAGAATNTTTGCATTATACATA
Sequence 1207
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CAATGGAAATGCATGGTTGAAGTTTTCCTTCCTGCCTGTGTGGGGCCTTAGGGCCACAAG
GGCAGCCATTACTCAGCACTGCACTGACCTTGGGAATTTGCTGGGCAAGGAAAATGACGT
GGCCCTCATCATCGATGGCCACACCCTGAAGTACCT
Sequence 1208
CCGCGGTGGCGGCCGCCCGGGCAGGTACAACGATCTCTTTTGTGGTCTTCTATGTCAACT
CTCAAACTAATCTCCTACAACTTTTCCACCCCCCACGCACCGTGCCACAAATCATCTGTT
ACCTAACACATAAGTGACAACACAATTCTGTTCCTGCCATTTTCTGCTGAAGATTGTTCC
AATTTACTTCTCTGTTGACATATAAAGTAGCCTTTAAAGCTTTTAAGGTCTTTAAAGCTT
TAAAGTAGCTTCAACATGATTTTGATTCTGCTTTTTATTCTCATTAAAATGAAATATTTC
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Table 1

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TACAGAAGCNTGAAATGGTGGAATTTA
Sequence 1209
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TTTGTCAGGAACGGTATTGGAAACTCTGAACTAGATAAATAATTCAAAGGATATTAGCTA
AAGTGATCAGGGACCAGGACAGGAAGGTACCTGCCCG
Sequence 1210
TCACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGACCATAGATAT
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CTTCTAATATTCANCAGCTTTGATTGTTGTTTTACATCTGACCTGTATTTAGATTTCTCT
GATTCCTGGAATATTTGTGGAAAATAAGTACCTGCCCG
Sequence 1211
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TGTGAAAATGAGTGT
Sequence 1212
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Sequence 1213
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ACCTTGCCTCCAGATTNATGAAACCAGTTAAGTAGCACAATTTCTCGTTGGCTACTTTCA
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Sequence 1214
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ACACTCATTTGATGAGGAATTTTGGTGTAAAGAAAGGGTAAAAATGGGAAATNNATAGGA
AAAAAAAGTTTNCT
Sequence 1215
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CTGGAGGACATGGCTGAAAAGACCATCAATTCCGACATATCTATACCTGAATACAAAGAG
CTTCTTCAAGAGTTCATAGACAGTGATGCCGCTGCAGAGGCTATGGGGAGATTCAAGCAG
TGTTTCCTCAACCAGTCACATAGAACTCTGAAAAACTTTGGACTGATGATGCATACAGTG
TACCTGCCCG
Sequence 1216
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Table 1

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Sequence 1217
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TGCTNTGGTTGGAAATGTATTCTGGATCCCCGCAGTACCTGCCCGGGCGGNCGNTCTAGA
ACTAGTGGA
Sequence 1218
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Sequence 1219
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Sequence 1220
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Sequence 1221
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GGCCG
Sequence 1222
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GAACAGCAGCTACTTTGTGGGATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACAT
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GCTCTTCAAGCGNAT
Sequence 1223
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CACANGAAAGAAAAGTGGTTTCTAGCAATCAACAGATGAGTTCTGGCCATAGTCTGTAGC
CCTNTGAGCCAAACGCCTTGGGTAAAGTTAATTACTCTTCATATTACACCAAATGCTGTC
GTACCTGCCCG
Sequence 1224
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Table 1

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Sequence 1225
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CTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACCTGCCCG
Sequence 1226
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CCCATGAGTGTCTTGCTTCAGTGTCACCCTGAGAGCCTGAGTGATACCATTCTCCTTC
Sequence 1227
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GCCCACCGAGTCGAATATGATGCGGTTCTGCTCGGCGCGCTCCCGCGTACCTGCCCG
Sequence 1228
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TGCTATTACAACAATGAAGATTCAAATGACTCCGCTTTGAAGGATGTTTTCTCTATATGG
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TTATGTAA
Sequence 1229
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CATGTTCACTCATTTTT.
Sequence 1230
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CTN
Sequence 1231
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CATATGATCCACTTACCAGAGNNTCTGTNTGGACATCTTTTAACCAAGCTAGTAGTAACT
GCCCG
Sequence 1232
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AACCTCCTTCCCCTCTGCGACATTGAACGGCGTGGATTCAATAGTGAGCTTGGCAGTAGT
GGGTGGGTTCCAGAAGGTTAGAAGTGAGGCTGTGAGCAGGACCTCCTTCCAGGGGACATG
CAATCTGCAGGGAGGGGCTGAGGGGGGTCCCATGGTCTCTGCTGTCTTCTCTGTCCACCT
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Table 1

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CAGTTTCGTTTTGATTTCC
Sequence 1234
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GAGTACCT
Sequence 1235
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GAGCAAAGGGACAGAAAAGCTGAGATGAACAGTGCCTGGCAGCAATCACAGCCGGGCAAG
GGTGCTCCGAGCCTCGCATCCCC
Sequence 1236
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CCAGGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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Sequence 1237
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Sequence 1238
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GGACATGTTGGTACCT
Sequence 1239
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CTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACCTGCCCG
Sequence 1240
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Sequence 1241
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Table 1

GGAAAAGG
Sequence 1242
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0
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ATGACG
Sequence 1244
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TACGAGCGTCTCCTGAAGATGCAAAACCAG
Sequence 1245
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CTTCTAAAATTTTAATCCTAGATTGGTTTCAGATGGGTTAAGACAGTCATTCAACCCACA
AGTATTTAAGGAAGGCACCTGGGACTGACTCAGTTCCTAGATTTAAACCTATTCTGTGAA
CTGCCCACCCCTACCTTCAAAGTACCT
Sequence 1246
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NCGAGATAAGGTCCTGATCAGAATCATGGTCTCCCGCAGTGAAGTGGACATGTTGAAAAT
TAGGTCTGAATTCAAGAGAAAGTACCT
Sequence 1247
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Sequence 1248
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Sequence 1249
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Sequence 1250
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Sequence 1251
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Table 1

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Sequence 1252
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Sequence 1254
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GACTCAAGTACCTCGGC
Sequence 1255
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TGTTTACCAAAAACATCACCTCTAGCATAACAAGTATTAGAGGCATTGCCTGCCCAGTGA
CTNAAGTNAAANGGCCCCAC
Sequence 1256
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GG
Sequence 1259
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ACATCTTGGCAAGACTTCTCATCTGTTAATAATTTAAATCCTTTCTT
Sequence 1260

Table 1

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Sequence 1261
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Sequence 1262
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Sequence 1263
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TGTAGTTGTTTTATTCACTATTTAAGGNTTTTTCCCG
Sequence 1265
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Sequence 1266
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Sequence 1267
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Table 1

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Sequence 1269
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GAACTCACTGAATTCGCCTAGAAATTTTGATTCCATTCGTGAAAATTTTTGTATATCCCG
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Sequence 1270
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Sequence 1271
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Sequence 1272
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Sequence 1273
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Sequence 1274
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Table 1

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*Sequence 1275*
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Sequence 1276
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GCGGGAAGCAGCACCAAGTTCACGGCCAACGCCTTGGCACTAGGGTCCAGAATGGCTACA
ACAGTCCCTGATGGTTGCCCGCAATGGCCTGAAATCCAAGTACCTGCCCGGGCGGCCGAG
GTACCAACAGAAACCTGGCCAGGCTCCCAGACTCCTCATCTATGATGCATCCGACAGGGC
CACTGGCAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnTTTTGCAGTTTATTACTGTCAGCAGCGTAGCAACTCGT
ACCTGCCCGGGCG
Sequence 1277
CGAGGTACGGGGGCCAAGTTATTATACTGGCTGAAAGTAATAAAATTGCAAAATTTTAAA
ACTGCAGGCTTGCTTGATGGTGAGAGTGAACTTTGTnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnTACCAGTGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGGGAAGCCTGGC
CAGGTTTTCTGCTGGTACCCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnTCGATATCAAGNCTTATCGATACCGTTCGACCTTCGAGGGGGGGGGCCC
CGGTACCCAGCTTTTGGTTCCCTTTTTAGTGNAGGGTTTAAATTTGCCGNCGCTTGGGCG
TAATCAATGGGTCATAGCTGTTTTCCTGTGTTGAAAAATTGTTATCCGCTCACAAATTTC
CACACAACATTAACCGAGCCCGGGGAGCATTAAAAGTGTTAAAAGCCTTGGG
Sequence 1278
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTGTCTTGATTAT
AGTAGCTTCATAGCGAGTCTTAAAGTCAGGTAGCAGGTAGCATAATTTCTCATTTGTTCT
TTTTCAAGATTGTGGTAGATATTATTTTTATTATTATTTTTTTTGAGACGAATTCTCACT
CTTGTCCCCCAGGCTGGAAGTGCAGTGGTGTGATCACAGCTCACTGCCTCCGCCACCTCC
TGGGCTCCCCGCGTACCTGCCCG
Sequence 1279
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTACTTTTTTTTTTTTTTTTTTTAAGAAACTGG
GTCTCTCTGTCACCCAGGCTGGAGTGCAGTGGCAACGATCATAGCTAACTGCAGCTTTGA
CCTCCTGGGCTCAAGTGATCCTCCTGCCTCAGCCTCCTGAGTAGCTAGGACTACAGGTGT
ATGCCACCATGCCTGGCTAATACAAAAAAATTNTTTTAAGAGATGGGATCCCTCCCTTTT
AAAATCAGAACTTGTTCACATGGTGGTTGCTTGTGGCAAAACGGAGTTCAAATTTTGCTC
TCCTATTGCTATAATTCTGCTAGCAATCTGTTGAGGTGAAACTTGGGATCTGACTCTTCA
GCAAGCAGCAAATGACCTAGTAACTCAGGGACAACTATTTTTGAACTTTAAGTGCCACTT
TAATGCAGTTAGTT
Sequence 1280
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCTATGTGGAGGAG

Table 1

ACTGCAAGGAAGCTGTTATTCAAAGTAGAACAGTCAGCCTTGTGCTTGAGTCCTGCTTTA
TGCTTGCGTGTTTCATAACAAAACACAAAGGCAAGTCTTCATATCAGCACTTAGTCTTGA
TATCCAAGTAGCTGACTACTGTACCTGCCCGGGGCGGCCGCTCTAGAAACTAGTGGATCC
CCCCGGGCTGCAN
Sequence 1281
TCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTGGANAGGAC
CNTNTNAAAAAAAAAACNTNAAACNGAAAAGGATTNNTGTTTNAATATTGACANAANCCA
AGGAACACCATCTGAAGTTCTGATGGCAACATCAGAAGCTAAGAGAAAGGCATGGAAAAG
ATTCTCACCTAGAGCATCCAGAGGAGAAGGTTGGTCCTGCAGACACCTTGTTTTCTGACC
TCTGACCTCCGCAACTGTGAGGGAAGAAATTTCTGTTGCTTAAAGACACACAGCTTGTGG
TACCTGCCCG
Sequence 1282
CCGGGCAGGTACGCGGGGAAGGAACCAGAGGCCACTTGTATATATAGGTCTCTTCAGCAT
TTATTGGTGGCAGAAGAGGAAGATTTCTGAAGAGTGCAGCTGCCTGAACCGAGCCCTGCC
GAACAGCTGAGGAATTGCACNTGCAANCCCTTNAANTGANNAACCAANTAAGAAATTTCC
CTTTGGGNANAAGCAANGCCCTACNGGGCAAACCTTAAAAAANTGNCCCANTNTTCCACC
CNTGGNAAAACCTTTGTATTGGNGAAGGGGNGGGAAAAAACCTCCCCTNTNGGAATAGNA
NTTTTTTGGAAAGGAACCAANAGNTTTNTTTTTTTACCCCGGGGAACTTGNANGTTTTTT
CCAGGAAAATTCTGTTTGAAAATTTCNAAAAAGNCCCCANCCAANTNGATTGGCAAAACN
CTTAACNTTGGGGGCCCCTTAATTCCNTAAAACAGNCCAACCCCTTCCANNAAAGGGGGG
CCAAAAAAAACNNAAAGGGCCAATAGCCCCCCNTTGGGNAAAATTGGCTTNTNANCCGTT
TAAAAAAGG
Sequence 1283
CGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGNAATTGGGCATAATTTACTA
GCCAATTTAGGAAGTTCCCCTCACATCAGTAACATACAGTACATCACCCAGTATGTCAGA
GGACACAATGGCATAAGTTTGCCTTTGCAAGGTTTGAGGGATGGCCATTTCCCGACCTGA
CTCAGGAAAGTCTGTAGCTGATATCCATCTTCAAGTTTGNGGNTCTTTCTCTCTATATAT
ATATTTGAGTNCAGCAGTCATGCTGGAGTCCAGAGTAGGTGATTCTTTCTGCTTTAGCTT
GACTCCTCCTTAAGATTGCAACTCTCTCAGTTTTACATTTTTTTG
Sequence 1284
CCGCGGTGGCGGCCGCCCGGGCAGGTACAACTTCCTCCTAGCGTTTCTGGTTAACTATGT
GAACACACAGGCAGACAGATCAAGCCGCTATGTGAGGGACAAATAAACATACTGAAGACC
TAAAAATGTGAAGTCAGCTGAGCCTCAATTCAATCCAAACCTTTGGGGGGCTTATGCACC
ATTAGTCTGTATCATGGCCTCCAGTCATTTGTCCCTCTAGAACAGGAACTCTGAAAGGCC
TGACAAAGAAGAATGGACAATCACAGATGCTGGTTTTGCCTTCTCATTCCCTGCAAGTCT
ACTGGATGCAGGAAGAGGGTGGGGGGGTTCAAGCTGCCTGCTTAGGAGCTTAAACATGAC
AAGGGATTTTCTAATGAAAAGCTAACCCAGAGATTCCTCTTTTTCCTATGATACCACAGC
ATCCATCATTCAAAAACCGAAAAAGGGAC
Sequence 1285
CGAGGTACAAGGACCACCAGCATCAGCATCACCTGAGAACTTTTTAAAAATGCAGAATCC
CAAGTCAGCTGAATCACAGTGTGAATTGTTAACTAGGTTTCCCGCTGATTTTCTATGAAA
ATTTCTGGTCTATACGGAGTGTATATGACAAATATATACATGTGTGGCCATGCAGACATG
CTTATTCTCACCTATGGCAAATAGAACACAGCTCTCCATGGTCAGGTGCTTCCATCCCTA
ATGGCTTCCCACCAGTGAGAAAGACATTAAGAGTCAGAATACTTTTGCTGTAATTCTCTG
GTAAATTTTGGTACCTGCCCG
Sequence 1286
CGAGGTACAGAAGAAACTTGATTCTATAATTGATTTGACAAAAGAAGGCCTATCCAACTG
CAATACAGAAAGTCCAGTATCCCCCCTGGAGTCACATTCGAAAGCTGCTTCAAACTCAAA
GGAAACAACCCCATTGGCACAAAATGCAGTCCAGGTTCCTGAGTCCTTTGAGCACCTGCC

Table 1

ACCTCTCCCAGAACCACCAGCACCACTACCTGAATTAGTAGACAAAACCCGAGACACACT
TCCTCCCCAGAAGCCTGAGTCGAGCGGCCGCCCGGGCAGGTACTTTGGCCTCTCTGGGAT
AGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCTCATCAGATG
GCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATCTCCAACTTGGGCCCCT
GGCCCAAAGTNTACCTTCGGNCCGNTCTAGAACTAGTG
Sequence 1287
AGCTCCACCGCGGTGGCGGCCCGAGGTACTGGAGGACACTGTGCTTGGTCTCATTGATCC
TGTTAACTTGACTGACTGCTCGATGGTCCAGCCACATGGTGACGTTTCGATGGGAATCCC
CTTCCTGGTTGACTGGTAATGGGTGAAACTGCTTATCAAAACAACCAGAGAACACGTGGC
ATCAAACCCAAGTCCTCGAATTTGGTTTAAATCAATCCCTTGTACCTGCCCGTGTNTNTT
AAATCTANAATGATGNAAAGTTTTGAATAAGNNGACTATCTTACTTCATGCAAAGAAGGG
ACACATATGANATTCATCATCACATGANACAGCNAATACTAAANGTGTNNTTNGATTATN
AGAGTTTAGATAAATNTNTGAAATGCANGACCACNNNANGGNATGTTTATGGGG
Sequence 1288
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAAAGAGCCAGTTGGG
TTGGCTGTGTTCTTTCTATTCGTGGAAAACAGCTGTGGGTGCCGGGTGTTGAAGTCAGGC
TTTTGTTCCATGCTAAGGTAGGAAGGTTTGTTCTTGAGACCTATCACTCTTCTGTGGAGG
AGGAGTTCACAGAATGGTGAGCCGCTTTATCACCATCTCGGAGGCTTTTGAAATATGTTG
ATAATGACCTGGGAAAGAGGGCCGAGTGGGATGAGGGTGGGAGTAGGAAAGAAACATTCG
GCCCACACAGTGTTCATATCTTCTCTTGTTTTTGTATCTGTGGCAACTGCAGATTAAATG
AATTAGGTTATTCTTTTCCATTGCCTTCTACCAAATAAGAAGTACCTGCCCG
Sequence 1289
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGGAACTGG
AAACTAAAAACTGCCCTGGCCTATCATAAGGGAAAAGATGGGAGTCTTTTGCTGTCCATC
TTGAATGTAATTCACATTGTCCATGAGTGCTGATCTAACCCCATATGCCTNTGCCCGACT
GCCTTTATGAAATATGGTAATTTAATGCTTAAACAACTGTTTCATTTGTGTACCTGCCCG

0

Sequence 1290
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTTTGTAGATGGAAGGAAGAACCTGT
GTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATA
CGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATG
TCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAAAAAA
AAAAAAAAAAGGTCCCT
Sequence 1291
TACCATTGCCCCTGGCNNNATGCACNATACATNAGGAGCCTGGGATCCTGGCCAGGTNTC
TGCTGTTACCTGCCCGGGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnAGTGAGGNGTTAATNGNGCGCTNGGnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGGAGCCATAAAAG
TTGTTAAAGCCTGGGGGTGCCTAATGAAGTGAAGCTAACCTCAACATTAATTGCCGTTNC
CGCTTCACTGNCCGATTTNCCANTTCGGGAAAACCTGTTCNTTGCCAAGCTTGC
Sequence 1292
AGGTACTGTTGAATGTAACATTAGAAATTGGGCGGTTAATTAACATTCCCTAAGTCATAT
GCTTTAATTTGATAATGATTGCAATCCAAGCTCTGTGGTTCCGAAAATGAGATTTGTAAA
TTCAGTTTGCATTCCCCCATCTTTAGGAGTACCTGCCCGGGCGGCCGCCCGGGCAGGTAC
AGAAAGAAATATGTCATCTACATCGAGCGGGTGCAGCGCGAGAAGGCCAACGGCACAACT
GTCCACGTGGGCATTCACCCAAGCAAGGTGGTTATCACCAGGCTAAAACTGGACAAGGAT
CGGAAAAAAATTCTTGAACGCAAAGCCAAGTCTCGACAAGTTGGAAAAGAG
Sequence 1293

Table 1

CCGGGCAGGTACTCATCAGATGGAATGTTTTACCCTGCCGAGGTTTTAGTCATGATGTGC
TGAGCTCTCTGCGTCTGACGTGACTGACTGGTAGCTGGGCGTCGGCGTGACCCTTCTTTC
CCTCTAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAATTAAAATGATTGACAT
GCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACCT
Sequence 1294
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAACTTTTACTTTGGTTTTGTTATCTGACTAT
TGGGTCTTTGACACTTAATGGGCACTTCTTTTTTTTTTTATTTAATTTAGAAGTTATGTA
ACTTCTAAAGCTATGGTTCTCAAGTGTGATATCAGGATTCCTGGAATTTCCTGAGAGCCT
TTCATGGTGTCTATGAGGTCCTTGTTTTTCCAACTATGTATCTGTGTCAGGTCAGGTTTT
CTTCATGTACCT
Sequence 1295
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGGGATTTGTCTTTT
ATGAGTTACCAGTTCAGAGACTAGTTCATCTTTGGTTGTATAGGATGTTAGGATCTCAGT
TGGCATTCACAGTTAAATCATGCACCTTCAGGAACTGGGAGCATTTTGATCCAGAGTCAC
AATCATTCCTTTCTTATCTTCATCCCTATGGTATGTGTGTTCTGAAGTTTAACTGACAGA
TGGCAGCTGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTCGACCG
CGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCG
CGAGGGCTACGAGCGTNTCCTGAAGATGCAAAACCAG
Sequence 1296
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGAAGTTTGCGTTCATCGTCCACTT
CAATGAGTTTCTGGCAGCCAGTGGCTGGGAAGGAGATGTTCAGCTTCATCTTGAAGCAGC
TGAACGCCTCCGAGGCGCCACGGAAAAGAGGCCCCGCGTACGCGGGATTGGGATTGGGGG
GAAAGAGGGAGCAACGGCCCATAGCCTTGGGGTTGGACATCTCTAGTGTAGCTGCCACAT
TGATTTTTCTATAATCACTTGGGGTTTGTACCTGCCCG
Sequence 1297
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAAATCTGCAAGCCAGCTTCACCCCT
CCCATCGAGTTCTGGTCAGGAGGCTTCTGGTTGAGTTCAAATTGCTATAAAGTTCAGCTG
GAGCCTTCCTTCTCCCTGTGGCCTTTTCCCAGTACTTTTTTTTTCTTTTTNTTTTTTTT
CCAATACTTGTCTTAGCTTGTTTTTCATTTTCTATCTTGAAACTCTTGACAATATTTTCA
TTTTCTATCTTGNTTANTATCTTCCAATTTTCTTCTAAGTTTGTACCT
Sequence 1298
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTGGAATGGGTTATGAGGAATTGTGGTCAAAAAACGAGAACTTCTTTTTGGTGTTAA
CAGGGCTATGTCTGCTTTGCTCTAGTGATTCCTAACCTACTGTGCGAAGGAGGCATAGCA
AGGCAAGACTGTTTAAGTATAACCATAAAGGGACTCACGCACTCTCAGGTGAAGTGCAAA
AATACTGATCACGGTGCTCAAACATTCTGGAGGAGTAAGCATTCAAATTCAGAAATGTAA
GACGATTTCTCAAAGAAAAGAGGAAAAACCTATCATTAATTTTTTAAAATATACCTTCCA
GAGCAGGTTTCTCAACAATTTTACATAGAAGACGAGTATTTTTGTCTCCTTAAGATTTGG
ACTTAAGGTCAAAGTTGTTGAAGGTTGATCGGCTATTGTAAGCTTCAGGTGAAACCTANA
GAGGAGAAGGGAAGAAGATAAATCTACTATCCTAGATTCTTTTT
Sequence 1299
ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGGCCTCTCTGGG
ATAGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCTCATCAGA
TGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATCTCCAGCTTGGTCCC
CTGACCAAAAGTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnTGTTCCCTTTTAGTGAGGGTTAATTTGCGCGCTTTGGCCGTAATTCATGGTCATAG
CCTGTTTCCTGTGTGAAAATTGTTATCCGCTCACAAATTTNCCACACAACATACCGAGCC
GGGGAAGCCATTAAAAAGGTGTAAAAGCCCTTGGGGGTGGC

Table 1

Sequence 1300
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATCCATGAATACATTTCC
AACAAGAGCACTGGCCAAGTCAGCTTCTTCTGAGAGAGTCTCTAGAAGACATGATGCTAC
ACTCAGCTTTGGGTCTCTGCCTCTTACTCGTCACAGTTTCTTCCAACCTTGCCATTGCAA
TAAAAAAGGGAAAAAGAGGCCTNCTCAGACACTCTCAAGAGGATGGGGAGATGACATCAC
TTGGGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnGCCGCCGCTTGGCCGTAATCATGGTCATAAGCTGTTTCCT
GTGTGGAAATTGTTTATCCGCTCACAATTTCCAC
Sequence 1301
CCGGGCAGGTACAGATCTCTGCAGTTACAGGAACATCGTCTGCTTCATGGTAAATGCAAT
TTCCTGTTCAGAAACCACACTAACATTACTTCTTTCAGTATTTCTGCCTCAAAGTTGGTT
TAAGATTATCATCATTATAAAGAAAAATTTTGTNCTANTTGCTGGNCCAAAGGGAAAA
Sequence 1302
AACTCCTATAGGGCGTTTTGGAGCNCCACCCGCGGTGGCGGCCGCNCTAGAANTAGCGNA
NNCGGCNTTCNGNAGGANTANTTTATCAAGCTNATCNATACCGTNGACNCCGANGGGGNG
CANNGGAACCCANACTTTGAGTAAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNANTAAN
CATGGNCATAGCTGGGACCNGTAGTGAAAATTGTTATTCCGCTGCACAATTCCACACAAC
CATACCGAGC
Sequence 1303
AGGTACACTTTTGGCCAGGGGACCAAGCTGGAGATCAAACGAACTGTGGCTGCACCATCT
GTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGC
CTGCTGAATAACTTCTATCCCAGAGAGGCCAAAAGTAACCTTCCCNGGGCGGGCCCGCTT
CTTAAGAAACNTAGGTTGGGATCCCCCCCNGGGNCTTGCCATGGGAAATTTCCGAATTAT
TCAAAAGGCCTTTATTCCGAATTAACCCCGGTTCTGAACCCCTACNGAAGNGGGGGGGNG
GGCCTCCCGNGTTTACCCCTCAANGCCNTTTTTTTTNGTTTTNCCCCCTTTTTTAAGGTC
GGNAAGGGGGGTTTTAAAATTTTNGGCCGGCCCGGCCTTTTGGGGTCNGGTTANAATTCC
AATTGGGGNTACCAATTAAAGGCCTTGGGTTTATTCNCCTTGGGTGGNTNGGAAAAAAAT
TTGGGGTTTTAATTCCNCCGGNCTTTCNAACCAAANTTTTCCCCAACCCAACCAAAACCC
AATTANCCCGGANGGCCTCCGGGGGGGTAAGGCCAATTAAAANAAGGTTGGTTAAAAAAG
NCCCCTTNGGGGGGGGGNTTGNCCCCCTTAAAANTGGAAAGGTTGGGAAGCCCTTTAANA
ACCTTCCAACCAATTTTAAA
Sequence 1304
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGCCAAGGTCCT
CTGTGACTCGCCGCCCACTACCCAAGTGAATGAGTCTCCCCTAGAGCTTTGCTACTCAGA
GGGGTCTGAGGACAACAGCATGGGCCAACACGTGCACTCGAGCTGCCTGGAGATCTTGTT
CAAAGGCAGATTCTGAATGAGTAGGTCTGGGTTGGAGCCTGAGAGTCTGTACCT
Sequence 1305
ATTGGTCTCCCCGCGGTGGCGGCCGAGGTACCATGCAGAAACCTGGCCAGGCTCCCAGGC
TCCTCATTTTTGGTGCATCCACCAGGGCCACTGGTAnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTCTGCAAGTT
TACTACTGTCAGCAGTATAATAACTGGCCCCCGTACCTGCCCGnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnGTCATAGCTGTTTCCTGTGTTGAAATTGTTATTCCGCTCACAATTCCANCA
CAAACATACGAGCCCGGNTAGCATAAAGTGGTAAAAGCCT
Sequence 1306
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGCTATAAAATTGGTATTTGTA
TCTTCCTCCCATTCTGCGCTCCCCCAACCCTGCAGGAAGGTGGATTCTTCAAGGGAACTG

Table 1

GAGGAGACTCTTCTGTTACCACCAAGCCAGGAAGTTTCATGGCTTGGGAAGCCCCGCGTA
CCTN
Sequence 1307
AGGTACGCGGGAACACATTTCTTTGGGATTTTGCCCTTCCTGGGGTATAGGGGATCAGAA
ATATTGATCCATGTGCACGCAGATAAAATGGCTTCTGCTAAACAGACTAAAATCTTTCTC
TCTAGTCTTTCTCACTTGTACCTGCCCGGGCGGCCGCTCGACCGTCTTTCCCTTTCGCCC
TCCACCTCCTTCCTGAGACCAGCTGTGTTTCAGCTCCCCCTTCCCTGGCCCACACTGAA
TCTCTGTTACCCTTACAAACCCCTGCTGCCTCTAAGAGTAAGGACCCCTATCCCATCCCA
AACTCAAACCTAAGCACATGCAGCCTCATCCCATTTCTCCAAAACATGTGAAAGCAAAAG
AAAATAAAAAACTAACTCAGCAATCTTGTTCTTTCCTACAGTGGNCTTTTGGCTAC
Sequence 1308
GATCATATAGGGCGAAATTGGANCTCCACCGCGGTGGCGGGCCGCCCGGGCAGGTACGCA
GGGGGCCTCTGTAAGGCACATGGAGGTGATGATGTTTCTTAGAGAGAAGATCACTTGAAG
AAACTTCTGCTTTAATGACTTTACGAAGCTGGCAATATTACAATCCTTGACCTCAGTTGA
AAAGCAGTCATCTTCAGCCGTTTTTCCAGCACCTATAAGCCACCCCCCAAGTGTGGTNTA
TTGCCCTCCCTCGGATTGCCTCCNGTTACCTTCGGGCNCGCTTCTAAGAAAACCTAGGTT
GGGAATCCCCCCCCGGGGCCTTGCCAGGGAAATTTCGGAATNATCAAANGGCCTTAATTT
NGAATACCCGGTTCGAACNCCTTCNGGAGNGGGGGGGGGGGCCCCCGGGTTAACCCCCCA
ACCCTTTTTTTGGTTTTCCCNCNTNTTTAAGTTGGAAGGGGGGTTTTAAAATTTTGGNCC
NNCGGCCTTTTGGGGCCGTTTAAAAATNCCAATTGGGGTTTCCAATTAAGNNCNTTGNTT
ATNTNCCCCTTGGTTGGATTGGAAAAAATTTTGGTNTAATTTCNCCGGCCTTCCAACC
Sequence 1309
GCGGNGGCGGCCGCCCGGGCAGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCA
TCTATGGTGCATCCACCAGGGCCACTGGTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnCTGCAGTTCTGGAAGATTTCTTGCAGTTTT
ACTTACTGGTCANGCCAGTATAAATAAAACTGGGCCCCCCGGTACCTTCGGCCCGCTTCT
AANAAACTTAGGTTGGGAATTCNCCCCCNGTGGNCTTGCCAAGGGAAATTTTCGGAATAA
TTCAAAAGCCTTTAATTCGNAATTACCNCGGTANCCGAACCCNTTNCGNAAGGGGGGGGG
GGGGGCCCCCCGGGGTTAACCCCCCAANCCTTTTTTTNNGTTTTCCCCCNTTTTTAAAGN
TTGGAAGGGGGGTTTAAAATTTTTGNCNGGCCCGCCCTTTGGGGNCCGGTTAAAAATTCC
AANTTGGGGTTTCCAANTTAANGCCTTGGTTTTTNCCCCNTTGGTTGGTNGGNAAAAAAT
NTTGGTTTNAATTCCCCGGCCTTTCCAACCAAAATTTTTCNCACCCAACCCA
Sequence 1310
TGCCAGTGGCCCTGTTGGATGCATCATAGATGAGGAGCCTGGGAGCCTGGCCAGGGTTTC
TTGTTGGTACCTCGGCCCGCTCTAGAACTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnTAGTGAGGGTTAATTGGCGCCGCTTGGCCGTAAATCATTGGTCATTAAGCTGTTTTCC
TGTGTGGAAAATTGGTTTATCCCGCTTCACAATTTCCACACAACAATACCGAAGCCGGGG
GAGCAT
Sequence 1311
CCGGGCAGGTACAAACTTATGAAGAAGGTCTCTTTTATGCTCAAAAAAGGAGACAAGGTC
TCAGGAAAGGAGTGGGTAAAACACTTATCTCCAGAAAGCCAGCAAGAGGGAAGAAGGAAG
AAAACCCCATCCTGCATGGTATGATGCTGAGATTCCTCACATATCTTCAAAGCATCCTAA
GAAAAATTGAAGGACCCATGTTTTCAGATCAAGATGCTCCAGCTAGTAACCTGAACAATG
GAGAAAAAGGAACTCACAGCAGAACATCTACCTGGAAAATGCAACCACTTTGGGAAAAGG
GGAAATACTAAAAGTTTCAGAGAACAGAAGTGTGTCACATACAAAAGACCAACAATGAGA
ATGGCTTTTAACTTTTCAATATCAGCTCTAGATGTTTAAAGACAATAA
Sequence 1312
AGGTACGCGGGGACACTTCCGGGCGCGGCGCCGGCTTGCTGCCACTGCAGAGCCCCGCCA

Table 1

TGGAAGACACGCCGTTGGTGATATCGAAGCAGAAGACGGAGGTGGTGTGCGGGGTCCCCA
CCCAGGTGGTGTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGGGCTT
GCAGGAATTCGATATCAAAGCTTATCGATACnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTGGTTCATA
AGCTGTTTTCCCTGTGTGAAAATTGTTATCCCGCTCACAATTTCCACACAAACATTACCG
AGCCCGGGGAGCCATTAAAAGTTGTAAAAGCCCTGGGGGTTGCCCTAATGGAGTTGAGCT
AACTCACATTTAATT

Sequence 1313
TACCAGTGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGGGAGCCTGGCCAGGGTTTC
TGCTGGTACCTGCCCGGGCGGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTTGGCGTTAATCATTGGTCATAGCTGGTTT
CCTGTGTGAAAATTTGTTTATTCCGCTCACAATTTTCCCACACCAACATACCGAAGC

Sequence 1314
ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGGCCAGTTATTATACT
GCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTACCAGTGGCCCTGGTGGATGCAC
CATAGATGAGGAGCCTGGGAGCCTGGCCAGGTTTCTGCTGGTACCTGCCCGGGCGGCnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTGAAGGGGTTAATTG
CCGCGCTTGGCGTAATCATGGGTCATAGNCTTGTTTCCTGTGTTGAAAATTGTTTATCCG
CNTCACAAATTCCACACAAACATACCGAAG

Sequence 1315
TACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGATGTGGAGAG
GACCATGTGAAGAGAGAAGCTGAGACTGAAAAGGATTTATGTATTAATATTGACAGAAGC
CAAGGAACACCATCTGAAGTTCTGACGGCAACATCAGAAGCTAAGAGAAAGGCATGGAAA
AGATTCTCACCTAGAGCATNCAGAGGAGAGGTTGGTCCTGCAGACACCTTGTTTTCTGAC
CTCTGACCTCCGCAACTGTGAGGGAAGAAATTTCTGTTGCTTAAAGACACACAGCTTGTG
GTACCTGCCCGGGCCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTTGCAGGGAATTT
CNATATCAAAGCCTTATCCGATACCCGTCGACCTCGAAGGGGGGGGGCCCCCGGGTACC
CAAGCTTTTGTTCCCTTTT

Sequence 1316
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGATGTGGAGAGGACCATGTGAAGAGA
GAAGCTGAGACTGAAAAGGATTTATGTATTAATATTGACAGAAGCCAAGGAACACCATCT
GAAGTTCTGATGGCAACATCAGAAGCTAAGAGAAAGGCATGGAAAAGATTCTCACCTAGA
GCATCCAGAGGAGAGGTTGGTCCTGCAGACACCTTGTTTTCTGACCTCTGACCTCCGCAA
CTGTGAGGGAAGAAATTTCTGTTGCTTAAAGACACACAGCTTGTGGTACCTnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTN
CGACCTCGAGGGGGGGGGCCCCGGTTACCCAGCNTTTTGTTCCCTTTAGTGAGGGGTTAA
TTGCG

Sequence 1317
TACCAGTGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGGGAGCCTGGCCAGGTTTCT
GCTAGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnCGCGCTTGGCGTAATTCATNGGTCATAGCCTGTTTCCTG
TGTNGAAATTGTTATTCCGCTCACAATTCCAC

Sequence 1318
CCGCGGTGGCGGCCGAGGTACGCGGGATTGATGATGGGAGGCAGTGAGTCTTGATGATAA
GGGTGAGAAACTGAAATCCCAAACACTGTTTTGTTGCTTGTTTTATTATGACCTCAGATT

Table 1

AAATTGGGAAATATTGGCCCTTTTGAATAATTGTCCCAAATATTACATTCAAATAAAAGT
GCAATGGGAGAAAAAAAAAAAAAAAAAAAAAGGTACCTGCCCGGGCGGCCGCTCGATGCTT
GGTGCTGAAGTATAATTAATATTTGAGTGTTTGCTATGTGCCATAAACTTTTCTAAATGC
CCTTTACATACATTAGTTATCAAAACAACCCTNTCCTGGGTAGGGGCATTTATCCCCATT
CTTCAAGATGAGGGAAACTGAGGCCACCAAAGAAATGGTTTCCAAGGTTTGGTACCCTCG
GCCG

Sequence 1319
CCGGGCAGGTACCATGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATC
CACCAGGGCCACTGGTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGCAGTATAA
TAACTGGCCCCCGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnAGTGAGGGTTAATTGCGCCGCTTGGCGTAATCATGGTCATAGCCTGTTTTCC
TGTGTGGAAAATTGTTATCCCGCTCACAATTTCCACACAACATACCGAGCCGGGGAGCA

Sequence 1320
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTCTTGGTTTCTGAGTCCAGTC
CCCTTTGCATAAACGCCCGGCGTGGCTCTCTCAGCGTCCCCGCACCTTCATGCNCAGCAN
ATTCTTGGACAACTTTGTCTTTCTCT

Sequence 1321
AGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATCCACCAGG
GCCACTGGTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGCAGTATAATAACTGG
GCCTGTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnNGGTTAATTGCCGCGCTTGGCCGTAATCATTGGGTCATAGCNTGTT
TTCCTGGTGGTGAAAATTTGTTATCCGCTCACAAATTCCACACNAACATTACCGAAG

Sequence 1322
AGGTACAGATAATGAGGGTTGTAAAATGAAAGAGAGAGGAGAGGTGAGACGAAATGAAGA
CAGCTAATTTTTCATTCGACAAAATCAGGGTTCAGAGACATTTGTAGCTACACTGCCCAA
TGCAGCTACTATTAGCCACATGTGGCTACTTAAATTTAAATTAATTAAAATTAAGTACCT
GCCCG

Sequence 1323
CCGCGGTGGCGGCCGAGGTACCAAGTCAGGTTGTTCATTTGAGCCAACAACAGATTTCTT
GGTTATTGTGCTATTGCCACAGTAGGTCCTATTTGCATTGAATTTGTGTGTTTTTAGCTT
CTCTCCTTTTACGTGTTGCTTTATGCTACTCTCCAAAAGTCTTTCTTGTAGAAGTTTATT
AAGTTGTATAATTTTTCTTTGCTCTGTTTTGTTTTGTTTGACAGCCTGGGTTGGTGGTTT
TATAAGCCATTTCCATCATCAGTTTCCTGTCTCTGCTGGGGGTTATCTTAGTGCCTCTCA
TGAATCGGGTGTTTTTCAAATTTCTCCTGAGTTTCCTTGTGGCACTGGCCCGTTTGGGAC
TTTGGAGTGGTGGATGCTTTTTTACACCCTTTCTTCCACATTTCTCATGCCAAGGTCACC
CACCAT

Sequence 1324
ATAAAGATGATGTCTTTTTGTTATTGNCTGTCTGTTTNGTATGTGTCTGAGATAAGGGAT
AGAGAGGAAACATCCGTCAGGCTAATTTAACTACATTTTATTTTAAAAATAGAGAAACAT
AACCTCTAGATGGGACAGCAGAGGACAGTTAGTANAGGCCACAAACTGTTATGGGCTGCT
GTGTTTTGTTCTAAAATCAATATGGTTGGAGCATGTATATCTTANGTGATCATTTCACAT
CTTAGGAATGCCTACTCATTTTATTTTATTCTAGTGATNGCTCAATTCACTATTTAATTT
ATTATATTTTCTCTTCTGGGGCACCTTATACAAAATATCTCTTCACCTACTTAGTTCTAC
AGGGTTTT

Sequence 1325

Table 1

CCGGGCAGGTACCTTCTTGGCAGAGCCAAAGTCACCCGTTCTGCTTTTGAGGGAAGGAAT
TATGAGAAATTCCAACTTCTGCCTTCAAGCAGGAACTTTCCCAGCCATTTCCTTGAAAGG
TTGTTTACAAGGTCACAGGCAGCCACAAACATGATAAAAATTCATTCCTGTACCT
Sequence 1326
CCGGGCAGGTACTCCAAAGATTCAGGTTTACTCACGTCATCCAGCAGAGAATGGAAAGTC
AAATTTCCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACT
GAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTCAGACTTTGTTCTTTCGGCAAAGGA
CNTGGGTCTTTCTATCCTCTAGTACCCTTNGGACCGCCTCTTAGAACCTANGTTGNGNAT
TCCCCCCCGGNGGCTTGGCAANGGAAATTTCTTATTAATTCAAAGNCTTTTATTCNGCAT
TAACCCGNTCCNGAACCCCTTCTGNANGNGGGGGGGNGGGGGGCCCCCCGGGGTTANNC
NCNCCAAGGNCCTTTTTTTTTGGTTTTTTCCCCCCTTNTNTTAANGGTTGGNAAGGGGGG
GNTTTTAANAAATTTTNGGCCCGNCCCGGCCCTTTTGGNGNCCNGGTTAAAAANTTCCAA
TTTGGGGTTCCCNATTTNAAGGNCATTGGGTTNTTTTNCCCNTNGGGTGGNTTCGGNAAA
AAANTTTTGGTTNTAATTCCCCGGTCTTTCCAACCAAAA
Sequence 1327
CGCGGTGGCGGCCGAGGTACTGNAAATCGTCAAGGGTGAAAGGTCGATCGCNTGCCAGCT
TGCTTCCACTNGATTCTCGGATTTTTTTACCGGTANTGATGTTGTAACATTCGTATCCAA
GGCTCCGCAAAGTTNGNCACNTCGGTATGTGANAAGGCTNTCCTCATTCCCACNTATATT
GGNGTTACCCTTGGCCCNCGGGTCCNAGGCCCNCCTTAATTAANAAACNTTANNTTTGNT
ATTCNCCANCCGGGNCNTGNCAANNGTAAATTTTTCGTAATTAATACNANANGNCTTTTA
ATTCCGNNATTANCCCGGTTCTNTAACCCCCTANGATAGGGGTGGNGNGTGNGNCCACAC
CGGNGNTTANCACCCNAANNATCCTTTTTTNTGNATATTTNACCCNTNTTTNNATGNTTG
GNAAGGGGNGGTAATTAAAAANTATNGACNCNTCCNTCCNTATTGGGAACNGAATAAAAA
NTTCAAATTGNGGGATTCCAANTTNAGTCCATTTGNCTATTNTTCCCCCTTGGTTGGANT
TGNTAAAAAAAA
Sequence 1328
GGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACA
GAGAGTTCCAAGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATAT
AAGAGCTTTAAATGCTTNCCAAAACTGGAACGAGTATNTTGCAAAACCATTCCTTGCTTC
GNTGGATGGTCACCGTGATGGAGTCAATTGCTNGGCAAAGCATCCAGAGAAGCTGGCTAC
TGTCCTTTTNTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTG
TATCCGTACCT
Sequence 1329
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGCAGAAGCAGAAAAGGGTTGTTGT
TACCAACTTGAATGGTCACACCGCCCGAGTCAATTGCATACAGTGGATTTGTAAACAGGA
TGGCTCCCCTTCTACTGAATTAGTTTCTGGAGGATCTGATAATCAAGTGATTCATTGGGA
AATAGAGGATAATCAGCTTTTAAAAGCAGTGCATCTTCAAGGCCATGAAGGACCTGTTTA
TGCGGTGCATGCTGTTTACCAGAGGAGGACATCAGATCCTGCATTATGTACCT
Sequence 1330
AGGTACAGATACATGGACACAATCATGGCAGCCAGCTCGAGGCCCCCAATTCCAGCTGCC
ACACCACCCACGGTGACTNGCATTAGTTCGGATGTCATACAAAAGCNTGATNTGAAGCAA
CACCTCTACGTTTTTGGTCGTAGAGCTCTTTTTGCTTTGNGNTGCAAGGATTTTCATTTT
GGGGCTTGTTGNTTTGGGATTGNACNGNTTTGTTCATTTTGNNAANACCATNAAATTGGG
TGTGTGTAAANAANGGNCCAACCTTGATTTTCATTCTTNTTTGGNATAGTATATGGGNGN
TTGTAAGGTTTCNCCTTTCAAAAAAAANTTCCCCGNTTTANTTAGNATTTGGNGTTTGTA
AAANGACTCCAACCATGTNCAAACCTTTTGGAAGGCCCCCCTTTT
Sequence 1331
AGGTACGTGGGCCTGTCTGCAAACCAGTGTGCCGTGCCAGCCAAGGACAGGGTGGACTGC
GGCTACCCCCATGTCACCCCCAAGGAGTGCAACAACCGGGGCTGCTGCTTTGACTCCAGG

Table 1

ATCCCTGGAGTGCCTTGGTGTTTCAAGCCCCTGCAANGAAAGCANGAATGCACCTTTCTT
GANGGCCACNCTCCAGCTGACCCCCGGCACTGNTTNTAGTAACCTAGCTGGGTAATCTCC
CCGGGTGCCTGGCNAAGGGAAATTTTCCGNATANTTCAAAAGGCNTTTATNCCNNNTTAA
CNCGGNTNNGTACNCCTTCNGTAAGNGNGGGGNGGGGCCNCTCNGGGTTTACCCCCAAAT
CTTTTNTATGGNTTTTCCNCNTTTTNAAGCTTGGAAGGGGGGTTATAAAATTCTGGACCG
TCCGGCCTTNTNGGGCCNGGTTAACATTTCTAATTGNGTNTCCAATTAAGGGTCCNTGGN
TTTTATTCTCCTTGGATTGGTTGGA
Sequence 1332
TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGTGAGGCATTTCCTGATTTT
TACTCATAATATTTACAAAGATTAAAAGAGATAAAATTCCAAATGTGAAGGCTTAAATTG
TTCAAATCCTTACTCAAAGAAATAGTGGGAAAGGTGGGTAAGTCAGAGTCTGCTGCCGAT
GAAGGAAAAAAAATCAAGTTAATCTCTTCTGAAATTATCATGATTTGTTTGGTTTATNATT
CCCAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCT
Sequence 1333
AGGTACTAAAGCATTCATGGAGGCTCTTCAGGCTGGTGCAGACATCTCCATGATTGGGCA
GTTTGGTGTTGGCTTTTATTCTGCCTACTTGGTGGCAGANAAAGTGGTTGTGATCACAAA
GCACAACGATGATGAACAGTATGCTTGGGAGTNATTCTGNTGGAGGTTTCCTTTCNACTG
TGGCGTGCTGACCCATTGGGTGGAGNCCCATTTGGNACAGNGGGCTACCCTTGCTCCGAG
GNCNGGCANGCTTGCTACTAGNAANCTTAGATGNGATCCCCCCGNGGNCTGGCNAGGGAA
CTTNCGTATTATCNAAGGCCTTATTCCGGATANCCCGCTCCGTACNCCTANGGATAGGGG
GTGGGCNCCCCGGTTACCACCAANCATTTTNTGGTTTCNCCCTTTAAAGGATGNANGGGG
GTTTTAAAATATNGCTGCCGGCCTTTGGGCCGGTTAAAATTCCAAATTGGGGTTCAANTA
AGTCCTTGGATNTTNCCCCTTGGTCGNTTNGAAAAA
Sequence 1334
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGGTCCTGGTGGGATGGTGAACCGTGACGA
GTACGCCATCAGGGTAAAGAACTCGTCCAGACTGTCAACTGTGATCCTGGACTCGCTGTA
GGTGAGTAGCGAGTTCTTAGATCCTAAGAGACTGATGCATACATGGGGAAAAACAAATAT
AAAACCTGGCAGTTGTACCT
Sequence 1335
CGGGCCCGCCCGGGCAGGTACATTTCCTTGTAGACTCTGNTAATTTCCTGCAGCTCCTGG
TTGGTTCTGGAGCAGATGATCTCAATGGAGAGAGTCCTCGTCGGTTCCCAGCCCCTNTCA
TTGCGAAAGCTTTTTANCNTCANAAAGCCGTTCATTACCTGAGGCCAGGGTGGTCTTTCA
AATAAGGGCCCCAAACAATTCAACCGGTNCTTCCAAGGGGTGGGGCCAAGNATAAANGGG
CNTGGANCTTNTCAAGCTGGCTTGNATTGNCAAAGNTNTCCCTTTTTTTTNGGGTGCCCT
TACTACTNGGTAAGGGGCGNAAAAGGGCNAAATTAATNCCCTNGTTNCTTCTTGNTCGNC
AANANTGNCNTNGCCGNGGTATTGGNNTCCANNAAAATTGGTNTGGAACCAAAATGGGGT
NGGAACCCTTTCAATTCTCCAACCAACNCTTTTTTGGGNTACNTTAGGCAATNGNGGCCT
TGNNTTTCCCAAAATTGGTTTACCACANAAGGCCAAATTCNCCCGNCCTTTCAAGANCAA
TTTCNAAAACCGGTTTNAAGGTNAATTAAGGGGNNCTTTTTTGGGANCANGGGAACCCCC
CNATTAATTTGNCCAACCTTTTGGGGGGGG
Sequence 1336
GTGGGCGGGCCNGCCCGGGCAGGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGCAA
TAAACCCATTATTCTCAGAGCTCTCTGTGACTACAAACAAGATCAGAAAATCGTGCATAA
GGGGGATGAGTGTATCCTGAAGGGACAACAAACGAGCCGCAGCAAGTGGTACCCTCGGCC
CGCTTCTAAGAAACTAGGTGGGATCCCCCCGGGGCCTGCNAGGNAATTTCCGAATATTCA
NAGCCTTATACGAATACCCGTTCGNACCTTCTGAAGGGGGGGGGGCGCCGGNTACCCCAA
GANTTTTTTTGTTTNCCCCTTTTNAGATGAAGGGGGTNTAAAAATNTGNCGCCGCCNTTT
GGGCCGTTAAATTCAATGGGGTTCCATTAANGCCTGGTATTTTNNCTTGGTTGNTTGGAA
AAAATTTGGGTNTAATTCCCCGGCCTTCCAACCAAAATTTTNTCCACCAANCAAAACCAA

Table 1

TTANCNGNAAGGCCCCGNGGGGAAGGCCAATTAAAAAAAGGTTGGTTAAAAAAGGCCCCT
TGGGGGGGGGTTGGCCCCCTTAAAATTGGAAGGGTTGGAAGGNCCTTAAAACCCTTCCAN
CAATTTTA
Sequence 1337
CATATAGGGCGAATTGGAGCTCCAACCNGNGGGGGCGGGCCGCCCGGGCAGGTACCAACA
GAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCCACTGGCAn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
AGTAGCCTGAAGATTTTGCAGTTTTATTACTTGTTCAGCAGCGGTAAGCAACTTCGTACC
CTCGGCNCGCTTCTAGNAACATAAGTTGGGAATCCCCCCCGGGGCCTGCANGGAAATTCC
GCATANTCAAAGCCTTAATCCGGAATAACCCGGTCCGGACCCTTCNNTAGGGGGGGGGGG
GCNCCCGGGTTACCCCNCAAGACTTTNTTTGTTTTTCCNCTTTTTAANNTTNGAAGNGGG
TTTTAAATNTTGGNCGGCCNCCCTTNGGGCCGGGTAAAATTTCAATTGGCGTNCAATTAA
GCCTTGGNTTTTNCCCCTGGTNGGNGGNAAAAAANTTGGTTTAATTNCCCGGCCTTCAAC
CAAAATTTTCTCAACCCANCCAAANCCATTTAACTNNAGGCCCCGNGGGNAAGGCCATTA
AAAAAGNTTGGTTAAAAAAAGCCN
Sequence 1338
AGGTACAGCTGGAGCAGAGTTGCACTTCACTGTGTAGAATGGCTTTATCTGAGCCACTAC
ATTCTGCCATTGACTGCGTTNCTTCNCAATCTTTCCCAAGATCTCCCACAAAAAAATGCA
TTTTTCCCTGTCAGGGTNATGTTCATNAAACATACNCTTNTCAATAACANTTTCCCAAAG
GGTTTTGNTTTCCTTCAATNCCAACAAGGGNTCANACCGGNAGTTAAGNTTTTNGCCATT
CCATNCAAATAAAAANTCCCCTTTTCATTCTTCCACCCACCTTATNTTCTCAACANANAN
ACCCGGAACAGTTTANTTANAAACCCNAGGGNAAAANGAACCAAAGGAGGAACGNGGCCC
ACCCAAAGCCTAATGGTCTTGGGGGTCCCTTTANGNAAATTANTGCCAAACAAANAAATG
GTACCANAGTTTGGGGGNAGGAATGNGGAACCCCCCCCTTATCNATTCNAGCCTNGCGTT
TNCCCCAAAGGGGTGGGCTTCAAACC
Sequence 1339
TCCTATAGGGCGAATTGGAGCTCCACCGNGGTGGCGGGCCGAGGTACTATGGAACAGG
TTCAAAATGAATATAAGGGAGTTATTTATATATTAGGTAAAGCACAAAAATGATAATTAC
TGGACTGCACACTCACAGGTTAAAGGTCATTTGGGNGCAGNAAAAATGTCCGGACCCGTT
TGGGGAAACAAGAACCATTAAACCTGCTTGTAAAAAGGAAGCCCAAGGGGGGAGGGGGTA
AACCCAAAAAAGCCGTTATTTCAAGAAATANGCTTGGTGGGAAAAGCTTGGGGGGGGAGG
ACCACCCTTGNAAAAAAAATCCTAAGCCANATTAAGGCCGTTGGAAAAAAATTCAACCTT
TAAAAGNTTAAAAAAAAAATTAAAAAACCTTTTTCAAGGAGGGGGCCTGGAAAGGCCTTA
TTTTTTGAAAATTTTAACCCANACGNAATTTTTTANGTAAGNATTGAAAATTGGCCCCAAA
AAAGGAAGGGGAATTTAAGGTAAAAAAAATTTTCNTTTCCCATTGGCCNNAAAAAATNAC
CAAACCAAGGTTAAATTGGGGCNTCCCCAATTCCAACCGGAACCATTTTGGTTANAAAAC
CCCCCAAAANGCCCCCGAAGGAGGTTNCACCNTTATTGGTTAAAGGTTGGAGGAAGGTTT
TGGAAGGTTGCCANAATTTTTGGTTAAATTAAAGGGAAAATTAAAAAAAAACCAA
Sequence 1340
CCGCGGTGGCAGCGGCCGCCCGGGCAGGTACCATCACCCCTTCATGCTGGCCCTAAGCTT
TCTCCAGCAGTCCCACTTCCTGATATTCGTTCTCTTCAGCAGCCTAAAATACAGCTTTCT
TCTGTCCCCAAAGTAAGCCGCTGTGCTCATTGCCCTAATGAACCCTCCACTTCGCCAATG
CGTTTTGGTGGTGGTGGTGGCGGTAGCGGAGGNACCTCGGCCGCTCTAGAACTAAANGGA
TCCCCCGGGCTGCAGAGAATTCGATATC
Sequence 1341
CGCGGTGGCGGCCGAGGTACCAACATGTCCCGTGGTTCCAGCGCCGGTTTTGACNCGCCA
CATTACCATTTTTTCACCCGAGGGTCGGCTCTACCAAGTAGAATATGCTTTTAAGGCTAT
TAACCAGGGGTTGGCCCTTACATCAGTAAGCNTGTCAGGAGGGNAANAGGACCTGTTGNC
ANNTANATNTGTTCACCACCAGNAAAGAAAAAGTTACCCTNGCTCCNGGNGCGGGCCCGC

Table 1

TTCTTANGAAANCTTATGNTGGGATTCNCCNCTCGGNGCCTTGCCAAGGGAAATTTTCTG
ATTATTTCNNANGNCTTTTANTTCNGGAATTANCCCGNTCGGATCCCTNCGGAGGGGGGG
GGGGGGCNTCCCGGGGTAACCCCCCAAGGCTTTTTTTGGTATTCCCCCTTTTTAAGATTG
GAAGGGGGGTTTTAAAATTTTTGGCCTGGCNGGCCCTNTTGGGGCCGGTTAAAATTNCAA
TTGGGGTTNCAATTAAGGNCTTGGTTTTTNCCCCTTGGTGGGTTGGNNAAAAAATATTGN
GTTTAATTTCCCCGCCTTTCAACCAAAATTT
Sequence 1342
TCACTATAGGGCGAAATTGGAGCTCCACNCGCGGTGGCGGCCCGACATCCGCCGCCCGAG
GGATCGTTGGCAGCCCGGGTGGGAGTGTGGCTGTGTTCTCGTCCCTGGCTGACAACGAAG
GGGAGCTAGTCACTTTTCCTGCCACAGACGACTCGCNGTCCGCCTCTCGCCTGGAGTACC
TCGGCCGCTCTAGAAACTANGTGGATCCCCCGGGCCTGNAGGGAATTCGATATCAAAGNC
TTATCCGAATACNCGTCCGNANCCTCTGAAGNGGGGGGGGCCCCGGNTACCCCAGNCTTT
NTTNGTATCCCCTTTTTAAGTTGAGGGGGGTTTAAATTTTGGCNGCCGCCNTTTGGGCTG
TAATATTCAATTGGGGTTCCANTAAGCCTTGATNTTTCCCCTGTTGGTGAAAAAATTTNG
TTTAATNCCCGGNNTTCAACAAATTTGCCCACCAACCAAACCAATAACCGTAAAGCCCCG
GGGGAAGGNCCAATTAAAAAGNTNGTTAAAAAAGNCCCTTGGGGGGGTTGGCCCCTTNAA
ATGGNAAGTTTGGAAGNCCTTAAATCCTTCCAACCAANTTTTAAAA
Sequence 1343
CCAATGAAAATTCCTGTTGCCATTCCAAGAATACCGCCAGCATTGGCCTTGACAATGCCA
TTATAAAAAGGGACAAGCCCTGCNTTAAACCGGTTCATTGCCCAAGCCCTTTTAAGTTAA
GAAACAAGGCAAAAAGGGTNCACCCCTNAATTTTCAATTGGAGGGGCCAAACCTTCCATT
GGACCAAGGAAACCACCAAGGCCAAAACCAAGNAAAAGGTTAACCCCCTTTGGGGGNNCC
GGCTTTCTTTAGAAAAAACTTAANGTTGGGGGAAATTCCCCCCCCCCGGGGGGGCCTTTG
CNAAGGGGAAAAATTTTCCCGGAATTAATNTCNAAAAGGCCCTTTTAATTTCGGGAAATA
ACCCCCGGGTCCGGNAACCCNTTCNGGAAGGGGGGGGGGGGGGGGGCCCCCCCGGGGTNN
NCCCCCAAAAGCCNTTTTTTTTGGTTTTNCCCCCTTTTTTNANGTTGGAAGGGGGGTT
Sequence 1344
CGAGGTACGCGGGAGGAACTGCTCAGTTAGGACCCAGAGGGAACCATGGAAGCCCCAGCT
CAGCTTCTCTTCCTCCTGCTGCTCTGGCTCCCAGATGCCACCGGAGACATnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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ATTACCGTTCGACCCTCGNAGGGGGGGGGCCCCGGGTACCCCAAGACGTTTTTTGTTTCC
CCTTTTNAGGTGGAGGGGGGTTAAAATTTGCTGCCGCTTTGGGNCGGTTAAATCAATTGG
GGTCCAATAAGCTTGGNTTTTNCCTTGGTGGTTGGAAAAAATTTTGGTTNTAATTCNCCG
GCTTCCAA
Sequence 1345
GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCATTACTGCAGGAAAAGGTCCCG
GAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGAGTTCAAGGAG
GCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACGTGCCAAGCATCCTC
GTGCGACCGCGAGAGCCCGGGGAGCGGGGGCTTGCCGGCCGTTGCACTCATTTACCCGGG
GACAGGGAGAGGCTCTTCTGCGTGTAGTGGTTGTGCAGAGCCTCATGCATNACGGAGCAT
GAGAAGACGTTCCCCTGCTGCCACCTGCTCTTGTCCACGGTGAGCTTGCTNTAGAGGAAG
AAGGAGCCGTCGGAGTCCANCACGGGGAGGCNGTGGTCT
Sequence 1346
CCGGGCAGGTACCATCACCCCTTCATGCTGGCTCTAAGCTTTTTCCAGCAGTCCCACTTC
CTGATATTCGTTCTCTTCAGCAGCCTAAAATACAGCTTTCTTCTGTCCCCAAAGTAAGCT
GCTGTGCTCATTGCCCTAATGAACCCTCCACTTCGCCAATGCGTTTTGGTGGTGGTGGTG
GCGGTAGCGGAGGTACCT

Table 1

Sequence 1347
GGAGCTCCCCGCGGTGGCGGCCGCCACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGC
CCTCGCGCTTCTCCTCGGCCAATTCGCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACAT
CATCGCGGTCGAAATAGAAGCCCAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACCAGC
TGCCATCTGTCAGTTAAACTTCAGAACACACATACCATAGGGATGAAGATAAGAAAGGAA
TGATTGTGACTCTGGATCAAAATGCTCCCAGTTCCTGAAGGTGCATGATTTAACTGTGAA
TGCCAACTGAGATCCTAACACCCTATACAACCAAAAGATGAACTAAGTCTCTGAACTGGT
AACTCATAAAAGACAAATTCCCACAGTNCCCTTCGGGNCGGTTNTAGNAACTTAGTGGAT
CCCCCCCGGGG
Sequence 1348
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGATCTCTGCAGTTACAGGAACATCGTCTGCT
TCATGGTAAATGCAATTTCCTGTTCAGAAACCACACTAACATTACTTCTTTCAGTATTTC
TGCCTCAAAGTTGGTTTAAGATTATCATCATTATAAGAAAAATTTGTCTAGTGCTGGTCA
AGGAAATGGGTCTGTGTTTCTTTGGCATGAGCTTTGGAATGGCTGTATTTGGAGGAGGGG
TAAGGCAAGTCAGATCCACTACTGCGTATCATGACGCAGATGCACATGCACACAGATGCA
CATGCTCGAAAACAGGCACCTGGAGATTTTAGNAAAATTCATTTGGGGGAAGATTNGCCT
AACTTTCCTTTCTACTTCAGTGGAATGAATTACCATTTCT
Sequence 1349
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACACTCAGGGCAGTTTCCAGCTC
CTCTCACAAACAGTAAATCTACACAACTTTCACAGCCAGGTCAGCAACTGGTTCAAGAAC
CGCCGGCAGCGCGACAGGAACCCCTCCGAGACCCAGTCCAAAAGGTGAGCGCCAACTTTC
CTCCTCCCCCGCGTACCT
Sequence 1350
CCGGGCAGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATCC
ACCAGGGCCACTGGTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTCTGCAGTTTTAACCTACCTGTTCAGCCAG
TANTACATAACCTGGCGCCCCNGTTACNCTCGGGGCCCGCATCNTAGAAACCTTAGNTGG
GNATTCTCCCCGCGGGGGNCTTGGCAGGGAAATTTTCGNATTATTCAAAAGNCTTNTATT
CCGNATTNCNCGGNTCNGTACCCTTCTNAGGGGGGGNGGGGCCCCCCGGNTNACACCCAG
GCATTTTTTNGTTTTCCCCCTTTNTAANNTGGGAAGGGGGTTTTAAAATTTTGNCCGGCC
GGCCTTTTGGGGGCNGNTTAAAAATTCCAAATGGGGGATTCCAATTAAGNCCCTGGGGAT
TTTCNCCTTGGNTGGGTTGGAAAAAAANTTNGGTNTTNATTTCCCCGGGCGTTCCAACC
Sequence 1351
CCGCNGTGGCGGCCGCCCGGGCAGGTACATCTACATACACATCAGTGCCGTGCCTTCCAT
TCCCAGGGAGGGCAGGGTCACTAGACAACATCATTAAAATGACCCTTTATCAGAGAACGT
TTTTCTGTTTAAGGAAATAAACTAGAGGTACAATTTTGAAAGTTTCTACCTGTATATAAT
GGATGTTAACCAGTATCAATAAATCACTTCGTATAATCTCAAAAAAAAAAAAAAAAAAGT
ACCT
Sequence 1352
ACGCGGTGGCGGCCGCCCGGGCAGGTACCAGCAGAAACCTGGCCAGGCTCCCAGGCTCCT
CATCTATGGTGCATCCACCAGGGCCACTGGTATCCCAGCCAGGTTCAGTGGCAGNNGGGT
CTGGGACAGAGTTCACNTCTCACTCATTAAGTCAGCNCTGGCAGNTCTTNAAGNATTACT
TGCANATTTTACCNACCTTGGTTCAGGCTAGTTANTANATTAAACNTGGGCNCCCCNCTG
NTACNCTTCTGGGCNCGCTTTCCTTAGNAAACCTTANGTTGGGGATTACTCNCCCCTGNG
NGNCTTGTCAAGTGGNAAATTTCCTGAAATTANTTCAANAAGNCCNTTTTAATNCCGTAA
TGANCCGCCGGTTCCGTAACCTCNTTCCGTNAAGCGGGNGGNGGGGNGTCCCCCCTGNGN
TTAACCCCCCAAAGGNCTTTNTNTTTTGGTNNTTCNACCCTTTTTTAAAGATNGGAAAGG
GGGGTTTTNAAANTTTTGNCCAGCCGGCCNTTTTGGGGCCGGTTAAAAATACCNAATGGG
GNTTCCAATTAAGGCCNTTGNTTTTTTCNCCTTTGGNGGGTTNGGAAAAAAAT

Table 1

Sequence 1353
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCATGGTACCACGGGCCT
GGGCACTGCATCTTCCCAGAGAAGCAGACTCCACAGGGGCCTCATGACCATCTTTCTCTG
GAGAGGCAGGCAAACTCCCTCGACAGCCAAAATCCAGAACCTCCCCCCGCGTACCTCGGC
CGCTCTAGAACTAAGTGGATTCCCCNGGGCTTGCANGGAAATTTCGATATCAANGCTTA
TNCGTTACCGTNCGNACCCTCGAAGGGGGGGNCCCGGTACCCAGCCTTTTTGT
Sequence 1354
GGCGGCCGAGGTCGCGGGGGAGGAACTGCTCAGTTAGGACCCAGACGGAACCATGGAAGC
CCCAGCGCAGCTTCTCTTCCTCCTGCTACTCTGGCTCCCAGATACCACTGGAGAAATAGT
GATGACGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGCCACCCTCTTCC
TGCAGNGGCCAGTCAGAAGTGTTGGCACCAACTTANGCCTGGTACCTGCCCG
Sequence 1355
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGCAACGTGCCA
TGCTACAGCCCCTGCTTGACAACCAGGTTGGTTTTAAGAACATGCAGAATGTGGAGCATG
TTCCGCTGTCCTTGGACAGAGCCATGCNGCTGGTGAAAGATGTCTTCATTTCTGCGGCTG
AGAGAGATGTGTCCTGCCCGGGCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnTCAATAACAAGCTTANNTNTACNATGGGCCTNCATNGGGGGGGGCCGTTCAACCT
TTCTGTTTGCTGTGTGCTGGCCAGAATGCCTNTTGGGCCGTCCTGTTGTTCTCTTCCCGT
GTTGTACCTGCCCGGGCGGCA
Sequence 1356
GCCTGGGATACCAGTGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGGGAGCCTGGCC
AGGTTTCTGCTGGTACCTNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnATNAAGCTTATCGATACTCGNCCGACTTTNCCAGGGGGGGAAACCTGTCGTGCCA
GCTTGNATTAATTGAATCGGCCAACGCCGCGGGGAGAGGCGGTTTTGCGTATTGGGC
Sequence 1357
CCGCGGTGGCGGCCGAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGTGGCAGGA
GAAGGATGGGTGATCCCTAAATTACCTTCCGAAGAGCCATGCATGCGTCCTCTGGCTGCT
CCAGGTGTAAAAAATGCCAGGGAGGGGACAATCATGAGTCCTAGGCAGGAAAGGTCCTCT
GGAGAGAGGAAATGGCACACGCGCAAGCACGGAGGCATGAGGGGCCAGGGTCCTGGAGGA
CACTGGGCCGGGACAGATCANACTCCAGGCAAGGAGGGAGATGGCGCCAGACTGTGATCA
TAAGCTTCACGATCCCCGCGTACCTGCCCGGGCGGCCGNTCT
Sequence 1358
CTCATAAAGGGAATAAGCTTGCGGCCGCTTAATTAAAGATCTTTTTTTTTTTTTTTTTTT
AACCTTTAATCTCTTTGGACTTTATCCTTGGGCTTTTCTGAAAGCACTTTCTGTCCAGCC
CTTGCTGTCACCCAGCCAAACCTAGCTACCTCACAGGCCCCCAGCAGCTTTCCTGGCTCT
GCTTCNAGCCCACCGGCCTTNCAACCCTTCCCATAACAATTGGTGCTACCAACCCTTCCN
AATAACCCCCTGGTCCCCCCAACCCCTCCCCAATTACCTGGGNTCCCTTTCAACCCTTTC
NCAACNAACNTTNGTTTCTCCNCAACCCCCNCNTTTTTAACCTTNTTTTTGGCCCTNCCC
CCCTTCNTTAACCTTTTTTTTGGCCTTCCCCATNGGGNTGNCGTTTTTTTCCCAATTTTT
TGGCCCAACCCCTTTCNAAAATTGGNAACCCCCCNCCAATTGGGGGAATTTTTATTTTGG
TANGGGGTTTTTGGAAAAAAAGGNTTTTTTNCTTAAGCCTCCNTGGGGGTCTTNTAAAAA
AANNAATNCANCCTNTTTTTTGTAAAAAANTTT
Sequence 1359
CCTCCTAAAGGGAATAANCTTGCGGCCGCTTCATTAATAAATAGACAAACTTCTTATATC
TCTGCCTTCTGACCATCAAACTGAATAATTTTAATTCAACAGGTCTTATTTTCATTTCCT
TTGAAATTTTCCTAATTGCCTTCCTTTCCAAGTTTACCATAGGTGCCTTGATTCCTTTCT
NGGAATAACCGCAANAAAAAGAAAANGAANTGGGAAAAAAANTAAAAGTTAAAGGGGTAA
GGGGAAATTANTAAAAAGGAAGGGTTTCCCTTCCCTTGGATTTNCNTAAAGGTTAATTCN
GNGGAANCCCCAAAAAAACCTTGGGTGGGTTGGTTAATNCCTTTTTTCCAAGGGGAAAAG

Table 1

GGGGGGGGAAGNAAGGGGAATTGGNGGCCAACCNCCCAATTCNTTTCTTCCCCCCTTCNA
AAATTTGGCCCCAAGGGGAACCNCCTTCCCCCCCCTTTNCTTNCTTTGGGAAGGGGAACC
CNTTAANCTTTCCAACCNCCANTTGGCCCTTTCCCCCTTTCCCCGGGAACCCAANNAAAG
GGGGCCCCCAATGCNAACCTTTTTCNAANTAAACCNTTGGGNTTNTTGGNAAGNGGGGNG
GNGGAAAAAGNCCCCCAANGGNCTAAACCCCAACCAAAAAAAGNCCCTTGNCTAAANGGN
GGAAGGGAAAAANTAAAGGGGGTTTTGGGGGGGAAAAA
Sequence 1360
CCTCCTAAAGGGAATAAGCTTGCGGCCGCTTAATTAAAGATCTTTTTTTTTTTTTTTTTT
TTTTCCTTTNAAAACAGCGTCATACTAAAGTTTATTTTTCTTTACACAATTATAGAATTC
AGGCAGACAAGGAGACATATATTGGAGTTTTCCATTTTTAATATTTGGTTAAACAAAATA
CATTNTTTTTGNTAAANCAAACCGNCANGCACCAAAGGGCCAAACNAACCAATAAANGGG
AAATAAAAAANGCCANAGGAAANAAAACCAAATAAAAANGCCCTTAGGGGGGTTTGGCNC
CCGTTATATTGTGGGNGNCAATTCANGGGGGTTCAAGGGGCCCNTTGNGTTNCAANCTTT
CCCCTTTAAAAAAAGGGGAAAAGGTNNGGGGGGGCCTTNTTTNTTTNGGCCCCCTTNTGG
GGNGNCNANTTANAANGNCATTTGGGGGGGTTCCCCTCTTNGGTTTNCCCNTTAAAAGGC
CAACCCCAAGGAANATTTTGGGGGAATNTATTNGNANACCCANGGNANGTAAAAAACCC
Sequence 1361
CTAAAGGGAATAAGCTTGCGGCCGCTTAATTAAAGATCTTTTTTTTTTTTTTTTTTTTTG
CAGGTTGGACGAGTTTGTATTAAGGCATTCTGACTCCTTCACTCTCCCCAGCTCCCTCCA
TGTCAATCCCTTGGCAGAAACACTGTAGACTTATAAATGGATGACAGATGCAGGCTTTTG
AGAGGGGACCAAAAAGGGAACCACCTTCTTCCCACTTGGGGGGTGTTGGGGGGTCAAGTC
CATTCCTTGGGGAGGGGGNGCTTGGACCATTTAGAAGGGGGCNAAAAGCTTCAAGGGGNC
TTTACCAGGCCCACNAGGCCCACCATTATTGCCCCATTCTNTCTTCCCTTGGTGCCAGGG
CTTCAATTTATTNGGGGCAATTTTTCCTTGCCAAGNCTTTTCC
Sequence 1362
CNGCCCGAGGTACTTTTTTTCTTAATTTTTTTTTTTTTTTTTTGAACCAAGCAGGTGTATT
CTGGAAGAAAATCAGACACCCTCCCTGGTTAAGAATTAGTTAACTATAATGTATTGGTGA
ATTGAGTTTATAGTCTTTTGGTGGGGGTAAAAGGGCCCTCAAAGTCATAGCAGGTTTAGT
TGTACCTGCCCG
Sequence 1363
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TCTTAGAAATTCTGTTAGTGGTTAGTAAAGAATTTGAAAGTACGCGGGGCTTTCTTTCCG
CGCCGATAGCGCTCACGCAAGCATGGTTANCNTGCCTAAAACCCGCCGGACTTTCTGTAA
GAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACCTGCCCG
Sequence 1364
AGGTACTCAGAGTGAGGATTTTCTGCAACCTGCGTTTGTCCCTCCAGCATCTGCTCTGGC
TCCATGGCGGACCCTGCAAGTCACAGTCCCCGGATACCAGTCTGGGCGCCGGGAGCACCA
CGAGCAGTAGAGCAGCAGAGTGGGACAGTCCACGACTGGGCGCCTACATGGGGTCTGGAA
ACTCTACGACAGTCCCAAGTACCTGCCCG
Sequence 1365
AGGTACCTTGGTGTTACTTCCTTTGAAAGATGGACATTTGAAAGTTAAAAATCAGTCACT
ATATAGGCACTGCTGTATGGAAAACGCATTTTTGTGTTTCTACAAATTGTAAGCGGGAAA
TGCCTTTTGGAGTACCTCGGCCCGCTCTAGAAACTAGTGGATCCCCCCGGGGCT
Sequence 1366
CGNGGTGGCGGCCGCCCGGGCAGGTACTGTTTACTACACACTTAAAAACCCGAGTGTCNA
GTGCCTTTAGGGGAAGAACACTTCTGCCTGCATGAAAATGTCTTAAAAGTGAAGGAAAAT
TTGAAGAACGCTNTTGATCAGAAGTCCAGACTGTAAACATAATC
Sequence 1367
GGNGGCGGCCGAGGNACGAGGGCCTTGGTTNAGNGGGGGAAAACCCCAAACCGCAAAAN

Table 1

CNNCAGACNGCAGGCNGCNGNNNGTGAGAGNGAACGGGGNCCCACNCCCANANACACNGA
ACCNGGCNGGGANACCAGNGGCCCNGGNGGANGCACCANAGANGAGGAGCCNGNGAGCCA
GGCCTGGTTNCNGCGGGGACCNGCCCG
Sequence 1368
ACTATTAGGGCGAATTGGTAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTGTTTG
TTTTTTTTTTTTCACCTTAAGGGAGGATTTAATTTGCTCCCAACTGATTGTCACTTAAAT
GAAAATTTAAAAATGAATAAAAAGACATACTTTCTCAGCTGCAAATATTATNGGAGAATN
GGGGCACCCACAGGNAATGAANAGAGGAAAGCANCTTCCNTAACCTTCAAAACCATT
Sequence 1369
CCGGGCAGGTACCAAAATGGTTTTTGAAGTTAGGGAGCTGCTTTCTCTCTTCATTCCTAG
TGGGTAGCCCCAATCTCTCCATAATATTNTGCAGCTGNAGAAGTTATGNCTTTTTATTCA
TTTT
Sequence 1370
GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGGCTCTGACCACTATTGGTTTTG
AGACCACGATGTTGGGAGGGTATGTTTACAGCACTCCAGCCAAAAAATACAGCACTGGCA
TGATTCACCTTCTCCTGCAGGTGACCATTGATGGCAGGAACTACATTGTCGATGCTGGGT
TTGGACGCTCATACCAGATGTGGCAGCCTCTGGAGTTAATTTCTGGGAAGGATCAGCCTC
AAGGTGCCTTGTGTCTTTCCGTTTGACGGAAGAGAATGGGATTCTGGTATCTAGACCAAA
TCAAGAAGGGGAACAGTACCTCGGCCCGTTCTAGAACTAGTGGATCCCCCCGGGCT
Sequence 1371
CCGGGCAGGTACCAAAATGGTTTTGAAGTTAGGGAGCTGCTTTCTCTCTTCATTCCTGTG
GGNGCCCCAATTCTCCATAATATTNTGCAGCTGGAGAAGTATGTCTTTTTTATTCATTTT
TAAATTTTTCATTTTAAGTGACAATCAGTTGGGGAGCAAATTAAATCCTTCCTT
Sequence 1372
NCCGGGCAGGTACTTACTTGATGTGACTCTCCTCTCATGCCTGGGCCCTGCTTACAGGTG
TGATTGTGACACATAGCTTGGCCTAGCCCCTAGGTTATGTNACTCTCCTCTTATCCTTCA
GTTATTTTCACAAGGGGCATTGCGACATATTGCTGGACTTGGGAACCCAGGTGATGTGAC
TCTCCTCTACTGNCTGGAATACAACCANAAAAAAAAAAAATNAANANAAAAAGNNCCCTN
CGNCCGCTCTAGAAANTAGTGGGATC
Sequence 1373
CCGGGCAGGTACCAAAATGGTTTTGAAGTTAGGGAGCTGCTTTCTCTCTTCATTCCTGTG
GGTGCCCCAATTCTCCATAATATTTGCAGCTGAGAAGTATGTCTTTTTATTCATTTTTAA
ATTTTCATTTAAGTGACAATCAGTGGGAGCAAATTAAATCCTCCCTTAAGGTGAAAAAAA
AAAAAAACAAACAAAAAANGTACCT
Sequence 1374
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TTTCTCTTTTTCCCTTCCCCGCCACTGATTCAGTGAGCTGGAGATTGGATCACAGGTATA
ATTCAAGCTTTCATGTAGTCATGTAGATCACTAGACTCCTTGGTGTACCTGCCCG
Sequence 1375
ACTACTATAGGGCGAATTGGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTACTTTGG
CCTCTCTGGGATAGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCCAGATTTCAACT
GCTCATCAGATGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTCTCATCTCCA
GCCTGGCCCCTACCAAAAGTGTGCGGCCAGTTATTATACTGCTnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnTACCAGTGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGG
Sequence 1376
AGGTACCTGNAGGCCTCCTACACCTACCNCTCTCTGGGCTTCTATTTCGACCGCAGATGA
TGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCAGAATTGNCCGANGAGAAGCGCNGAG

Table 1

GGCTACGAGCTGTCTNCTGAAGATGCAAAACCAGCNTGGTCGGCCGCTNTAGAACTAGAT
GANATCCCCCGGGCATGCAGGTAATTCGATATCAAAGCCTT
Sequence 1377
CCGGGCAGGTACCAAAATGGTTTTGAAGTTAAGGGNGCTGCTTTCTCTCTTCATTCCTGT
GGGGGCCCCAATTCTNCATAATATTTTGCAGCTGAGAAGTATGTCTTTTTATTCATTTTT
AAATTTTCATTTAAGTGACAATCAGTTGGGAGCAAATTAAATCCTCCCTTAAGGTGAAAA
AAAAAAAAACAAAAGTACCTN
Sequence 1378
ATCACTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACTT
TAAACTGTATTGTATTCATGTTGCTAAACAATATTGGCCTTCTCGATGATTTTATTCATG
TTGCTCCAAAGTTAAAACCCTGTAGAACTAAGTAGGTGAAGAGATATTTTGTATAAGTGC
CACAGAAGAGAAAATATAATAAATTAAATAGTGATCGAGCGGCCGCCCGGGCAGGTACCA
GCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATCCACCAGGGCCACTGG
TAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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ACCTTGGCCGCTTCTAAAACTAGTGGGATCCCCCGGCCTGNAAGGAATTTGATNTTTNA
GCCTTTTTGATNCCCGNCGACCTTCANGGGGGGGCCC
Sequence 1379
CCGCGGTGGCGGCCGAGGTACTTTTTCCTAGTAGTGACCCAGTAAATATCTNTNCAACAA
ACTTGGCTTTGCTGGTGTGCAAAGTGTAATATAAGGAAAATTAGTGACATTTTTTTGCCT
TTTAGTGTGTAACNTGGGAATGTATANGTATAGAAAACAGAGAGATAGTTATATATTTTA
ACAACTTGAAATTCATAGGTGTTAATAGATTCCTNTTTTTGAAATTAAATATCTCCTAGG
ATTTTGATCACTTACAGTGTTGTATGCACTACCTTA
Sequence 1380
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTCCAAAAGCCTTGTTTTTATTTATATAGAGTCCTAACCACTTCGGTGGTAGGAGGGGTG
GGAGAGGCTCCTTTTTCAA
Sequence 1381
AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGTATCATTGCA
GNCTTGCTTTTTTGAGTAATGGATTCCTAGATTCTATGAGGATACCACAACCACTTTTAA
AGAGGTTTCTAAGGNCAGTTGCAGTGCTTACGCCTGGGAGACCAAGGTGGGAGGATCACT
TGAGCTCAGGAGTTCGAGACCAACTTTGTCNTT
Sequence 1382
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTNNTTNTTTTTTTTT
TTTTTCTTCTTCTAGTTGTTTCTTGGTTTCTGAGTCCAGTCCCCTTTGCATAAACTTCAT
GCGCAGCAGGTTCTTGGACAACTTTGTCTTTCTCTCGGCCGCCATGGTAGGTTCCGCCCA
GCGCCGCACTC
Sequence 1383
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCATGGTACCAGCAGAAACCTGGC
CACGGCTCCCAGGCTCCTCATCTATGGTGCATCCACCAGGGCCACTGGTAnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnACAGAAGTTCACTCTCACCATCAGCAGCCTGCAGTCTG
GAAGATTCTGCAGTTTACTACTGTCAAGCAGTATAATAACTGGCCCCCGTACCTnnnnnn
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GCGCTTNGGCGTAATCATGGGTCATTAGGCTGTTTCCCTGTGTGAAAATTGGTTATCCGC
TCACAATTCCACAACAAACATACCNAACCCGGGGAGCANTAAAAAGTGGTAAAAGCCCT
Sequence 1384
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAACAGAAACCTGGCC
AGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCCACTGGCAnnnnnnnnnnn

Table 1

nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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ANGGACCAAAGGNGGAGATCAAACGAACTGTGGCTTGCACCATNTGNCTTNATCTTCCCN
CCATTTGNTGAGCANTTGAAATTTTGGAACTGCCTTTTGNTTGGNGGGGCCTGCTGAATA
ACTTCTATCCCAAGAGAGGCCAAAGTTACCTGCCCGGGGCCGGCCCGCTCTAAAACTAGT
GGGATCCCCCGGGCTGCAANGAATTCGATATCAAAGCTTATCGATACCCGTCGACCTTCG
AAGGGGGGGGGGCCC
Sequence 1385
CNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGGGACATTCATGCCCGGCGG
TTCGGGGCGACGGACTCTCCATTCCAGAACCATGGCCCAATTTGTCCGTAACCTTGTGGA
GAAGACCCCGGCGCTGGTGAACGCTGCTGTGACTTACTCGAAGCCTCGATTGGCCACATT
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nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGTAATCATGGGTCATTAGCTGTTTCCTGTG
TGAAAATTGTTATCCGCTCACAAATTCCACACAACATACCGAAGCCCG
Sequence 1386
GCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTCTGTGTGACAATTACTGCA
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TATTCTACTTGGTAGAGCCGACCCTCGGGTGAAAAAATGGTAATGTGGCGGTCAAAACCG
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ATCATGGTATTAAGCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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Sequence 1387
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGAAATGCATGAACTGGCAANTTATT
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AGCAGCTGCAGCCTTAATATGATCTTCCGGTTCTTCTGACAAGCANACTGACAACTGGGG
TACCTGCCNG
Sequence 1388
CTTNGGCGGCCGCCCGGGCAGGTTCTTTGGCCTCTNTGGGATACGAAGTTTTTCANNCAG
GNTCACAACACGAGGCAGTTCCAGATTTCAACTGCCCATCAGATGGCGGGAAGATGAANA
CAGATGGTGCAGCCACAGTTCGTTTGATATCCACTTTGGTCCCAGGGCCGAAAGAAGGCA
GACCAAAATATTGCTGACAGTAATCCCGCGTACCTNGGCCGGACCA
Sequence 1389
AGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCCGAGGTACGCGGGAGGAACTGCTCAG
TTAGGACCCAGACGGAACCATGGNTTCCCCAGCGCAGCTTCTCTTCCTCCTGCTACTCTG
GCTCCCAGATACCACTGGAGAAATAGTGATGACGCAGTCTCCAGCCACCCTGTCTGTGTC
TCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAAGTCAGAGTGTTGGCAGCAACTTTGC
CTGGTACCTGCCCG
Sequence 1390
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTCCNNNNACACCCNNNGTGC
ANNGGTCTTGCGTNGCCNATGCCNCCACCATTGTCCANAAGACTCAGTTAACATTATTTG
CAGTACAGACGGTTATTGATCCACGATGATAGAAGAGGAT
Sequence 1391
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTGGCCTC
TCTGGGATAGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCTC
ATCAGATGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATCTCCAGCTT
GGTCCCCTGACAAAAGTGTACCT

Table 1

Sequence 1392
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGTGCAATGCCTCAGGTTGCACCTGACTTATA
TGCTGAACTACAGAAGGCACATTTAATTTTATTCAAGGGTGATTTGAATTACAGGAAGTT
GACAGGTGACAGAAAATGGGAGTTTTCTGTTCCATTCATCAGGCTCTGAATGGCTTCCAT
CCTGCACCACTCTGTACCT
Sequence 1393
TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCAGGCTAAGGAGGTGCTAA
CACTCTGACnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnTCCGGTGGTATCTGGGAGCCAGAGTAGCAGGAGAA
GAGAAGCTGAGCTGGGGCTTCCATGGTTCCCTCTGGGTCCTAACTGAGCAGTTCCTCCCC
GCGTACCTGCCCG
Sequence 1394
CGAGGTACTGTCGTCTCCCAACTCCCACCTACAGGGCCCGGGAATCCTAGGGAGCGGATA
AAGGCCTGGGAGAGGGAGCAAGATGGGCTCCGCCACGAGATCCGGCTGAAGTCCGGCTCG
GCGCCGGCCTCAACTGCAAGAGGAAGGCACTCTCTCTCCCCAAGCTGAAACACCAGAAGA
GCCACACT
Sequence 1395
GACTTTGTTTGTTTTTTTTTTTTTTTTTCACCTTAAGGGANGACTTNATNTNTTNCCNTNT
GACCGCCACTTAAATGAAAATTTAAAAATGAATAAAAGACATACTTCTCAGCTGCAAAT
ATTATGGAGAATTGGGGCACCCACAGGATGAAGAGAGAAAGCAGCTCCCTAACTTCAAAA
CCATTTTGGTACCT
Sequence 1396
CGGCCGAGGNACGCGTTGCTTTTCACAATTTGGCNCCGAAANTTTAANAACGAAGCTCCT
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GGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCACCTTCCnnnnnnnnnnn
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NCGACCTCGAGGGGGGGCCCGGGACCCCANCTTTTTGNTCCCTTTAACTGAGGGGTTAA
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AAAAANTGGGTATTCCCGCCTCNACNAATTTTCNCCACAAACAATTACCGAAGCCCGGGG
AGCATAAAAAAGGGGTAAAAACCCCTGGGG
Sequence 1397
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGCCAGGTACTGGAGGAGTGAGTCC
CTATGCTGACCCCAATNCTTGCAGAGGTGATTCTGGCGGNCCCTTGATAGTTCACAAGAG
AAGTCGTTTCATTCAAGTTGGTGTAATCAGCTGGGGAGTAGTGGTGTNTGNAAAAACCAN
AAGCGANAAGCAGGTACCT
Sequence 1398
ACTACTTAGGGCAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCGCGGGAGCTTCTCC
TTGCCAGTTTCTCCCAGCAGGACCCTCTTCTTGTTTTGAAAGATGGTCGGCTGCTTTTGG
TAGGCACGCTCAGTCTGAATGTCCGCCATCTTCC
Sequence 1399
GTACGCGGGGGAGGCTCGCGGTTNGAGTGCGGCGCTGGGCGGNTCCTACCATGGTTTTNG
AGAGAAAGACAAAGTTGTCCAAGAATCTGNTGCGCATGAAGTTTATGCATAGGGGACTGG
CTCAGAAACCAAGAAACAACTAGAAAGAAGAAAAGAAAATCATTAGTGAAGAGCACTGGT
ACCT
Sequence 1400
GCGGTTTGGCCNCCGCAGGTACCAACANAAACCNGNCCAGCTCCCANGCTCCTCATCTAT
GATGCATCCAACATTTTTCACTGGCAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTTNAGNGTATTACTGNCAGC
AGCGTAACAACTCGTACCTCGGGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn

Table 1

nnnnNGATATCAAGCTNATCGATNCCGNNAGACCTCGAGGGGGGG
Sequence 1401
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CACTCGCCTCGGCCTCCCAAAGCGCTGGGATGACAGGCGTGAGCCATTGCACCAAGACCC
GATAGGTCTAAGGGGTCTCATTTGAGTCATTGTATATAAATTTTTTTTTCAATGTTTTTT
GTCTAAAAAACTTTAGACAGGGAATGCACTCTCCAATTACCTTCAACTGCTACCTNTCCT
TATTTTAATNNCCNAAAAACNNATTTTGGCCTTTAACAATTTTAANNAATTTAACCCCAA
AAATTTGTTTNTTNTTAAAAAATTNTTTTTTTATTTNGGNNGGGGCCNANCAAAANCNGG
GGGGGGACCCNNGGGGGGGGTTCANTTTTCNCCNCAATTTTAACCNGGGTTTCCCCNGGA
AAACNGGNNGAAAAAAAGTGNGGGGGNCNTTTTCCCAATTNAAAAAANTNGGGGAAANAA
ACCCTTTTAAANNANGGGGGTTTTTTTTNCTTTTTNACCNNNNCAAAAAATNNTTTTTTT
TTT
Sequence 1402
AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGAGGAACTGCTCAGTT
AGGACCCAGAGGGAACCATGGAAGCCCCAGCTCCACTTCTCTTCCTCCTGCTACTCTGGC
TCCCAGATACCACCGGA
Sequence 1403
AGGTACGCGGGGGAGCTACAACAGGCAGGCAGGGGCAGCAAGATGGTGTTGCAGACCCAG
GTCTTCATTTCTCTGTTGCTCTGGATCTCTGGTGCCTACGGGGACATCGTGATGACCCAG
TCTCCAGACTCCCTGGCTGTGTCTCTGGGCGAGAGGGCCACCATCAACTGCAAGTCCAGC
CAGAGTCTTTTATACAGCTCCAGCAATAACAACTACTTAGCTTGGTACCTGCCCGnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnCTGCAGGAATTCGATATCAAAGCCTTATCGA
TACCCGTCCGACCTCGAGGGGGGGGGCCCCCGGTTACCCAAGCTTTTTGTTCCCTTTAAG
TGGAG
Sequence 1404
CCGCGGTGGCCGGCCGCCCGGGCAGGTACCAAAATGGTTTTGAAGTTAGGGAGCTGCTTT
CTCTCTTCATTCCTGTGGGTGCCCCAATTCTCCATAATATTTGCAGCTGAGAAGTATGTC
TTTTTATTCATTTTTAAATTTTCATTTAAGTGACAATCAGTTGGGAGCAAATTAAATCCT
CCCTTAAGGTGAAAAAAAAAAAAAAACAAACAAAAAAAAAGTACCTnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNCGACCCT
CGAGGGGGGGGCCCCGGTACCCAGCCTTTTTGTTCCCTTTTAGTGGAGGGGTTTAAATTG
CCGCCGCTTTGGCGNT
Sequence 1405
GGACCCCTTATCGACTNCTATAGGGCNNATTGGAGCTCCCCGCGGTGGCGGCCGAAGGAG
AAATAGAACAGTGCAGGCAAAAGAAGAAAGGCGCGGGCTGGGTGGGAAGAGGATTCGGAC
TCGTCACACTGCAGAGCAGCAGAGCGAGAAAGGATGAGAAGAGGCAGAGAAGGCGACGGC
AGAAGAAAAAAGGAAAAACTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnGCGCCGCTTGGCCGTAATCATGGTCATAGCCTGTTT
CCTGTGGTGAAAATTGTTATCCCGCTTCACAAATTCCCACCACCAACATACCGAAGCC
Sequence 1406
CCGCGGTGGCGGCCGAGGTACAGAAACATTTTAGAAAAAGAAAGGGAACTTCAGCAACTG
GGAATCACAGAATACCTAAGGAAAAACATTGCTCAGCTCCAGCCTGATATGGAGGCACAT
TATCCTGGAGCCCACGAAGAGCTGAAGTTAATGGAAACATTAATGTACCTGCCCGnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnCGACCTCGAGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnCGCTTGGCGTAATCATGGTNTAAGCCTGTTTCCTGTGTGAAAATTGTTATCCCGC
TCACAATTTCCACACAACATTACNAGCCCGGGGAGCATTAAA

Table 1

Sequence 1407
ACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGGCCT
CTCTGGGATAGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCT
CATCAGATGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATCTCCACCT
TGGTCCCTCCGCCGAAAGTGAGCGGGGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnGTTAATTGCGCCGCTTGGTCGTAATCAATGGG
TCATAAGCCTGTTTTCCTGTGTG
Sequence 1408
CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGGCCTC
TCTGGGATAGAAGTTATTCAGCAGGCACACAACAGAGGCAGTTCCAGATTTCAACTGCTC
ATCAGATGGCGGGAAGATGAAGACAGATGGTGCAGCCACAGTTCGTTTGATATCCACTTT
GGTCCCAGAGCCGAAAGTGAATATAGGATGAGGCCAGTTGCTACGCTGCTnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGAGTGAAGTCTGTCCCAGACC
CACTTGCCACTTGAACCTGGCTTGGGATTGCCCAGTGGGCCCTTGTTGGGATGCATCAAT
AAGATTGAAGGNAGCCCTGGGGNAGCCTTGGCCCAGGGTTTCNTGGTTGGG
Sequence 1409
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTCCAGGAAGTGAAGTAAAACCTGGTCTTGGT
TGATAGGCCCCAGGTTGGCTTGGAGCCATTCCAGGTTGAGAGGCAGGAGCCACAGTATAA
TTAGTAGGCTGAGAAGTTTGGGCAGTGTAAGTTTGTGCAGGATAATTGCTCGCCTGGTAC
CTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnGCCGCCGCTTGGCCGTTAATCAATGGGTCATTAGCCTGTTTCCTGGTGTGGAAAA
TTGTTTATTCCGC
Sequence 1410
CACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGCCAGTT
CGCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGTCGAAATAGAAGCCCA
NAGAGAGGTAGGTGTAGGAGGCCTGCANGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTAATCATGGGT
CATAGGCTGTTTCCTGTGTGNAAATNTGGTTATCCGGCTCACAAATTCCACCA
Sequence 1411
ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGCCTTTGCCTTGAGTCCA
TCCACGCTTTAGCAGCTGCTCCTCAGCAAACTTCATCCCACGACTCTTGACCTCTGGGGT
GGCATTCATGGTGAGAAAAAAGTCTCTATCCTCAGACTCTCACCAGAGAAGAAGAGGTGA
TATCATCCGTCATTGCTGGGTCCGCTCCGCGGAAACATGTGCCGGACCTGACTTGTGCGC
CGCCATCTTCCCCCGCGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnCTTATCGATACCCGTCGACCTCGAGGGGGGGGGCCCGGGTACCC
CAGCTTTTTGTTCCCTTTTAGTGGAGGGGTTAATTTGGCGCCGC
Sequence 1412
CGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGNGATTTGCAGTTAGTTTATTGAA
ATGGAAATGAATTTGAGGNTTCAACAGTNGNCTAGCAGTTTCCACATGAAAAAGGACAAC
NCNAAGTAGAAGTAAAAGNTGNGNTTTTCTTAGGNCCCCCNAAAAAANNTANNANTTTTT
TTTGGGCCCCCGNAAAAAANANAAAAATTCCCCCCCNNAAAANGGGGNGGGGGGGNAAAA
NATTTTTTTTTTGGGGGNNGNNAAAAAAAAAAGGGGNGCCNGNTTTTTTNTTTTTTTTNG
NNCCCCCCCCTTTTTTTTGGGGGGGGGGGGGGGGGGGGGGGGGGCCCCCCCCCCCCCCCTA
AAAAAANTTTTTTTTTTTTAAAAAAAANNGGGGTNNTGTTTTTTTTTGCCCCCCCCCTTT
TTTTTTGGGGGGGGTNTTTTTTTTTTAAAAAAAAAANNGGGGGNNTNNNNCCCCCCNTTT
CCCCCCCCCNGGCCCCCCCNNTTTTTTTTTTTTTTTCCCCCCCCTATTTTTTTGGGGGGG

Table 1

GGGGGGGGTAAAAAAAAAANGGGGGTTTTTTTNGNCCCCCTTTTTTNCCCCCCCT
Sequence 1413
ATACGACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACC
AGCAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCGTCCACCAGGGCCACTG
GTAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGCAGTATAATAACTGGCCCCCGT
ACACTTTTGGTCAGGGGACCAAGCTGGAGATCAAACGAACTGTGGCTGCACCATCTGTCT
TCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGGAACTGCCTCTGTTTGTGTTGCC
CTGCCTGAAATAACTTTCTATCCCAGGAGNAGGCCAAAAGTTACCTCGGGCC
Sequence 1414
AGATGATGTCTTTTTGTTATTGTCTGTCTGTTTTGTATGTGTCTGANATAAGGGATAGAG
AGGAAACATCCGTTCAGGCTAATTNTAACTACATTTTATTNTTAAAAAATAGNAGGAAAA
CCATAACNCTTNTTTAAAAAGGGNGTNNNNAAANTTTTTTTTTGGTTTNTGGGGGTTGNG
GGTTTTTAAAAAANAAACCCCCCCCAAAAAANGGGGGTGTNTCCCCCCCCCCAAAAAAN
NGGGGNGTTTAAAAAAAAAGTGNGNNNGGGGGGNNTTTTAAAAAAAANNCCCCCCCCAAN
AAAANGGGGGGGGTNTTTTTTTTTTTTTTTTTAAAAAAAANNAGGGNGGGGTTTTTTTTT
TAAANANNNGGGGGGGGANAAAAAAAANGGGGGGGGGGGGGGGGGTGNGGGTCCCCCCTN
CCCCCCNCNAAANANNNCCCCCCCCCCCNTTCTCANTTTTTTTTATTATNTNTAAAAATT
TTTCCCCCCCCCCCCNTTTTTTTTTTTNGGGGGGGGGGGGGGGGGCACTNNTTNTTCNTTT
TTTTTNNCAAAAAAAAATTTTTTTTTTTTTTTTATTTTNTNTAGNGGGGGGGNTATTTATA
NTTTTTTATACCCCCCCCCCC
Sequence 1415
AGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTGACCGCGATGAT
GTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAACTGGCCGAGGGAGGAAGCGCCGAG
GGGGCTACCNAGGCGTNCTCCTGGAAAGATTGGGGGNCCCCCCCAAAATNTTAAAAGGAA
AAAANNNAAAAANNCCCCCNCGCCCCCCAAAAAAANNGGGGGNTNCCCCCCNGGGGGNAT
TTTTTTTTGGGGGGGGGGGGGGGGGNNTNCCCCCCNGGNTTTGGGGGGGGNNTTTNCCCC
CNTCNCCCCCCCCCNGGGGGGGGGNNCCCCCNTTTTTTTTTTCCCCCCCCTTTTTTTTTTT
AAAAAAAAGGGGGGGGGGGNAAAAAAAAAAAAAAAAAAACCCCCCCCTNTTTTTTTTTA
NAAAAAAAAGGGGGGGNNTTTTTTTTNNGGGGGNNNNGGGGGNNNNNNNAAAAAAAAAAA
TTTTTTTTTTTTTTNNNCCCCNNNNNNCCCCCCCCCNNNNNCCCNNNNTGNNCCCNTTAT
AATNNCCCCGGGGGNGGNNGNGGGGGGGGGGGNNNNNNNANNTTNTTTTANCCCCCCCC
CCCCTTTTTTTTTTTTTNGGGGGGGGGGGGGCCCCCCCCCCCNNAAAAAAAAANGGGGGGGG
GGG
Sequence 1416
AGGTACTTTTTTTTTGTTTGTTTTTTTTTTTTTTCACCTTAAGGGAGGATTTAATTNGCT
CCCAACTGATNGTCACTTAAATGAAAATTTAAAAAGTGAAGTAAAAGNACATTACTTCT
CAGCCTGGCAAATTATNTATNGGGAGGAANAAAAAAATTTTTTTTTTTTTTTGGGGGGGG
NGGGGGGGTATAAGGGGGNNTNNGGGNTTTNCCCCNCTAANAAAAANTCCCCCNTTTNCC
CCCCTTNNCCCCNTAAAAAAAAAAAACCCNCCNNAAAAAAAGGGGGGNNGGGGGGGNGNT
TNANAAAAAAAAAANAAAATTTTTTTTTTNGGGGGGGGGGGGAAAAAAAANANNANAAAA
AGGNGGNTTTNTAAAAAAAAAANNNGGNGNTGAAAAAAAAANNGNGGTCGNTNTAANAAA
AATNANATAANTNNTTTAAAATNGGGGGGGNNTTCCCCCCCCANAAAAANAGGNGGGGT
GNCCCCCCCCCCTCTTTTTTTTTTTTTTTNTACNNANGGCCCCCCCCCTTTNCCTNNTTTT
TTTTTTTTTTTTTAAAAAAANAGAATAATTNTNNCCCCCCCCCCTTTTNTTTTTTTTGTN
NNTANNGNGANCCCCCCCCCCCNCNAAAATATCNNCACTNTTGNTGNGAAAAATATTTCC
CCCCCCCCCCCCCCCC
Sequence 1417
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAATGGTTTTGAAGTTAGGGAGCTGCTTTC

Table 1

TCTCTTCATTCCTGTGGGTGCCCCAATTCTCCATAATATTTGCAGCTGAGAAGTATGTCT
TTTTATTCATTTTTAAATTTTCATTTAAGTGACAATCAGTTGGGAGCAAATTAAATCCTC
CCTTAAGGTGAAAAAAAAAACAAACAAAAAAAAAGTACCTnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTCGACCTCGAGGnn
nnnnnnnnnnnnnnnnnnnnTGTTCCCTTTAGTGGAGGGGTTTAAATTGGCGCCGCCT
TGGCGGTAAATCA
Sequence 1418
AGGTACATGGGGGTCCGTGCGGGCAGAACCCAGGGCATGAAGATCCAAAAGGGCCTGGTT
CAGCTTTTTCTCCAGGGCCATGGCAGCTTTCATGGCGTCTGGGGTTTTACCCCACTCATC
TTCAGCTGGCTTCTTGATGTCCTGGAAGAGAGCnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnGTTAATTTGCCGCGCCTTGGCGTAATCATT
GGTCATAAGCCTGTTTTCCTGTGTGAAAAATTGTTTATCCCGCTCACA
Sequence 1419
TATAGGGCGAATTGGANCTCCCCGCGGNGGCGGCCGAGGTACTTTTTTTTGTTTGTTTTT
TTTTTTTCACCTTAAGGGAGGATTTAATTTGCTCCCAACTGATTGCCACTTAAATGAAAA
TGTTAAAAATGAATAAANAAGTACANTACCTTTTTTCAANCNTGGCAAATAANAATTTAA
TNGNGNAGAAAATTTNTGGGTTNGGGGTTTGGGGGTTNTTTTTNCCCCNTAAAAAAAAAN
TACCCCCTNNNCCCCCTTTTNNCCCCCCTATAAAAAAANCCCCCCCCNTAAAAAAAAANN
TTTATGGGGGGGTTTTTTTNAAAAANATAAAAAAAANANTTTTTTTTTGGGGGGNTGTGT
CNAAAAAAANNCTAAAAAAAGGGGGNGGTNTNCCCNAAAAAAGGGGGGNGNTNTTAAAAAA
ANGNGGGGGGGGGNTGTANAAAAAATAAATATTTATTTTTTAGGGGGGGGGGGTNGNCCC
CCCCCTNTNAAAAAAANNNANNANGNGGNCCCCCTNATTTTTTTTTTTTTNCCCCNCTTTCC
CCCCNTNTCTACNTCTTTTTTTTTTTTTTTTTTTGTAAAAANANNGNAATTAATNNCCCCC
CCCCCCCCNNTTTTTTTTTTTTNATCTNTNNNNCCCCCCCCCCCCCTAANTTGTNCTTA
ANATTATTNATAATAAANATNGTTTTTNTATTTTNCCCCCCCCCGTNNGTCTCCCCCCCA

0

Sequence 1420
CTTAGGGCAATTGAGCTCNCCGCGGTGGCGGCCGAGGGACCAAGGTGGAAATCAAACGAA
CTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAA
CTGCCTCTGTTGTGTGCCCTGCTGAATAACCTTCTATCCCAGNAGNAGGGCCCAAAGTAA
AANTAAAAAGGGGGGNTTTTTTTTAAAAAACCCCCCCNCCCCCCTTTTTTTTTTTCCNNG
GGGGGGGGGGGGGNGGCCCCCCTTCCCCCCCGGGGGGGGGCCCCNATTTTTTTTTTTCC
CCCTTTTTTTTTTNAAAAAAGGGGGNGNNAAAAAAAAAAAAAANATCCCCCCNTTTTTTTT
TNAAAAAAAANGGGTTTTTTTTTTTTTTGGGGGGGGGGGGGGGGGGNNAAAAAAATTTTTTT
TTTNCCCCNNCCCCCCCNNCCCTNTTNCCCTTNTTNTCCCCGGGGGTNTTNGGGGGNNTA
ATNNNGGNTTTTTTTCCCCCCCCCNTNTTTTTTTTTNNGGGGGGGGGGNCCCCCCCCAAAAA
AAAAAAANGGNNGGGGGGGGGGGGGGGTTTAAAAAAAAAAAAAAAAAA
Sequence 1421
AGGTACCTTGGTGTTACTTCCTTTGAAAGATGGACATTGAAAGTTAAAAATCAGTCACTA
TATAGGCACTGCTGTATGGAAAACGCATTTTGTGTTTCTACAAATTGTAAGTCGGNAAAT
GNCCTTTTTTGTAGTATCCTTCGGGNCTTCCCCCGGGGGGGGNCCCCCTTTTTTTTCCCC
CCTTTTTTTTTAAAAAGGGGGGGGNAAAAAAAAAAAAGCCCCCCCNTTTTTTTNAAAAAAG
GGGGNTTTTTTTTTTTTGGGGGGGNGGNGGGGGGGTTTTNAAAAAAAANTTTTTTTTTTTNN
CCCCNNNGCCCCCCNNGTCCCCCCTTNGNCCCCNNNTNCCCCCGGGGGGNNTNGGGGGGG
NNTTNGGGNTTTTTTNCCCCCCCCCCTTTTTTTTTTGGGGGGGGGGNNNCCCCCCCCCCNAA
AAAAAANATNTTTTGGGGGGGNTTTTTAAAAAAAAAAAGNGAAAAAANNNTTTTTTTTTT
TNNNTTTTTTTTNNNNNGNCCCCCCCCCCGGGGGGGGGGNGANAAAAAAAAAAAAANTTTTTT
TTTNAAAAAAAAAAAATTTTTTTTTTTTTNCCCCCCCCCCCCCANAAAAAATTNNAAAAAAN

Table 1

GGGGGGGGGGGGTTTTTTCNCCCCC
Sequence 1422
AGGTACCTGCACAATGTCTACCCAGAGATGTTTGTTCCTGACCTGACGCCCACCTTCTAT
GGTGCCATCAAGAACCTNGGCACCAACCAATGCCTGGATGTGGGTGAGTAACAACCCGCG
GNGGGGGAANGCCCCCTCAATCAATGGGNTTTTTNAAAAAAAAACCCCCCTNCCCCTTTT
TTTTGGGGGGNGTNCCCCCGGCCCCCTTNCCCCGGGGATTTGGGGGGTTTNGTTTTTTT
CCCCCCCGGGGGGGGGGGGGGNNTTTTTTTTTTTTCCCCCCCGGGGGGGGGGGCCCCCC
CTTTTTTTTTTTTCCCCCCCNTTTTTTTTTTAAAAAAAGGGGGGGGGGGGANAAAAAAA
AAAAAAAAAAANCCCCCCCCCTTTTTTTTTTAAAAAAAAGGGGGGGNTTTTTTTTTTTGG
GGGGNNNNGGGTNNTNAAAAAAAAAANTTTTTTTTTTTTTTTNCCCCNNGGNNCCCCCCC
CNNNNNCCCCTGTNGNCCCCCTNTTNNNCCCCCGGGGGTNNNNTNNNGGGGGGGGTTTTN
NNGNTTTTTTTTTCCCCCCCCCTTTTTTTTTTTTTNGGGGGGGGGGGGGNCCCCCCCCCCC
NAAAAAAAAAAANANATTTNTTTGGGGGGGGGNTTTTGNANNAAAAAAAAA
Sequence 1423
AGGTACATATTTATGCCAGAAAGCTTGACAAACACTGAACAGTCTGTAAAAAAAATGGAA
AATCTCTTGACCATCAATTCAAATAAATATAATTTTAACTATTTTGCAGCCAATACCTAA
ATTTTACCTTTNTAATTTAAAANANTTANATTTTTTTTTTTTTANAAAAAAACCCCCCCCCT
TTTTTTTTTTTCCCCCCCTTTTTTTTTTNAAAAAAAGNCAAAAANGNCAAAAANGTAAAA
CCNTTTTTTTTTTTGGGGGGGGGGGNCCCCCCCCCNTTTTTTTTTTTTNCNCCCCNTTTTTT
TTTTTTTTTTNGGGGGGGGNGNTAANTATNTTCTTCNCCTGGGNGGGGGNNTTTTTTTTT
TTTCCNCCCNCCAAAAAAAAANGTGTTTNGGGGGGGNNAATNNTTTTTTNTTATANAAAA
AAATTNCCCCCCNNNNGCCCCCNNTTTTTTTTTTTTNCCCCCCCCCCNTNGGGGGGTNTT
TTAATACCTCCTNNNCNCCCCCCGGGGGGGGGGGGGGNTTNCCCCCTTTTTTTTTTTTTNT
CCCCCCCCCNTTTTTTTTTTTTNANAAAAAAANAANGGGGGNNNGGTNGNGTGGCCAAAAT
NGNTTTATTTNTTTTCCCCCCCCCCCTTTTTTTTT
Sequence 1424
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CCAACTGATTGTCACTTAAATGAAAATTTAANAAATGAATAAAAAGGACATACCTTCTCA
GCNTGGCAAAATAATTTATTGGGGAGGGGNAAAAAAAAAAAAAATTTTTTTTNTTTTTGG
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CCCCCNNTTTNCCCCAAAAAAAAATCCCCCCCNAAAAAAAANNNANTTTTGGGGGGGGGN
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TAAAAAAAATAANAAAANANTTTTAAAANGGGGGGGGNNNGNTNCCCCCCCCCCAAAAAAA
AAANGGGGGGGNGGGGCNCCCCCCCCCNTTTTTTTTTTTTTNNANNCNCNNNNNCCCCCC
CNACNANTCCCCCTTTTTTTTTTTTTTTTTTTNAAAAAANNNTAAAAANNNCCCCCCCCCC
CCCCCTTTTTTTTTTTTTTTTTTNACACCCCCC
Sequence 1425
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GNAACATTAAACCATAACCTAATCAGTGNGTNCACTATGCTTCCACACTTAGCNCAGACC
NTTCTCACNACATTNTTTACTTGGGGTTTTTTTTTTTCCCCCNAAAANTTTTAAAAAGGGG
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GGGNGCCCCCNAAAAAAAAAAAAAAANCNNNTTTTTTGGGGGGGNCNGGGNTTNCCCCCC
CCCCCCNTTTTTTTTTTTTTTTTTTTGGGGGGGGGGGGGGGGGTTTTTTTAAAAAAAAAGGG
GGGGGNNGNTGGANAAAAACCCCTTTTTTTNNNNTTTTTTTTTTNNNGGNNTGGGGGGNT
TTTTTTTTTTGGNNGNTGTGNNAGTNTTTCCCCCCNTTTTTTTCTCCTTTTTTTTTANNAG
ACCCCCCCCCCNTT

Table 1

Sequence 1426
CGCCCGGGCAGGTACAACCATCCAGCAGGTCCCAGAACAGTTTTCTTCTGGGCTCCAATT
ATGAAATGGGGGTTGGTGTGTGCTGGATTGGCTGATGTNGGCCAGNACTCTGCAGGAANA
AACTTAGGCACAAGGCNTCAATCTGTCTTGGGANNGGGTTTTTANTTTTTNNNTTTTAGG
GGGGGGGTGAAAAAAAANTTTTTNGGGGGGGGGGGGNGTNCCCCCCCTTTTTTTTTNAAA
AAAAAANCCCCCCCCAAAAAAAAAAANNTTTTGGGGGGGNAGGGGGGGGNNNANATTTTN
ANTTTTTTTTTNTTTTTNNAAAAAAAAAAAANTTTTTTTTTTTTTTCACCCCCCCNNNGGGG
GGGGGGGGGGGGGGGGGTTTTTTTTTTTTTTTCCCCCCCCAAAAAAAAAAAAAAAAANGGG
GGGGGGGGGTAAAAAAAAAANATTTTTTTTAANAAAAANCCCCCCCCCTTTTTTTTTTT
TTTCCCCCCCCCCAAAAAAAAAAAAAAACCCCCCCCCCNATTTTTTTTNTTATTTTGGG
NGGGGGGGGGGGGGTTTTTTTTTTTTTTTTTTAANNTTTTAAAAAAAATTTTTTTTTTT
TATTTTNTTNTTNAAAAAAAAAAAAAAATTTTTTTTTTNNTGTTNTGTNGGGCCCCCCCC
CCCC
Sequence 1427
TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCACGCTGGTTTTGCATCTTCA
GGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGCCAGTTCGCGGAAGAAGTGGCTCACGC
CTTCCAGAGCCACATCATCGCGGTCGAAATAGAAGCCCAGAGAGAGGTAGGTGTAGGAGG
CCTGCAGGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnCGTAATCATGGTCATAnnnnnnnnnnnnnnnnn
nnnnnnnnnCGCTCACAATTTCCACACAACATACGNAGCCCGGGGAGCATAAAGGTGTA
AAAGCCTGGGGTG
Sequence 1428
CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGATACCTCACCGTGGCTGCTG
TCTTCCGTGGTCGGATGTCCATGAAGGAGGTCGATGAGCAGATGCTTAACGTGCAGAACA
AGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATGTCAAGACAGCCCGTCTGTGAC
ATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAATAGCACAGCCATCCAG
GAGCTCTTCAAGCGCATCTCGGGAGCAGTTCACTGCCATGTTCCGCCGGAAGGCCTTCCT
CCACTGGTACCTCGGCCGCTCTAGAACTAGGTGGGATCCCCCGGGCTGCAGGGAATTCGG
ATATCAAAGGCTTATCGATACCCGTCCGACCTTCGAGGGGGGGGGGCCCCCGGGTACCCC
AACTTTTT
Sequence 1429
ANCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGTCGAGAGGTGGTTAC
ATTCGTTGAAGGACACCAGCTGCGGAATTTGCGGCTTTGGCAGATTGAAATCATGGCAGG
TCCAGAAAGTGATGCGCAATACCAGTTCACTGGTATTAAAAAATATTTCAACTCTTATAC
TCTCACAGGTAGAATGAACTGTGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGCGGTAATCATGGGTCATTA
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CCGGG
Sequence 1430
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACTTTCATTTA
GTAATTAAATTTTAGTCAGATTTTGCCCAACCTAATGCTCTCAGGGAAAGCCTCTGGCAA
GTAGCTTTCTCCTTCAGAGGTCTAATTTAGTAGAAAGGTCATCCAAAGAACATCTGCACT
CCTGAACACGCCCTGAAGAAATCCTGGGAATTGACCTTGTAATCGATTTGTCTGTCAAGG
TCCTAAAGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnCGTCGACCTCGAGGGGGGGGCCCGGGTACCCAGCTT
TTTGTTCCCTTTTAGTGGAGGGTTTAAATTGGCGNCGCTTGGCCGTAATCATGGGTCATT
AAG

Table 1

Sequence 1431
GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCCCC
AGTCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGC
CCCCCTCTTAATACTCACCAATAAATTCTACTTCCTGTCCAAGAAAAAAAAAAAAAAAAA
AAAAAAAANGTNCCGTCCGGTGTAATGGCGGCNCGGTGGAGCTCTAGGTGATGTTTGCAG
ACAGAAAAAGTAAACTGTCAAGGAATTCANAGCATTGGGTACCT
Sequence 1432
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAATGGT
TTTGAAGTTAGGGAGCTGCTTTCTCTCTTCATTCCTGTGGGTGCCCCAATTCTCCATAAT
ATTTGCAGCTGAGAAGTATGTCTTTTTATTCATTTTTAAATTTTCATTTAAGTGACAATC
AAGTTGGGAGCAAATTAAAATCCTCCCTTAAGGTGAAAAAAAAAAAACAAACAAAAAAAA
AAGTACCTCGGCCCGCTCTAGAACTA
Sequence 1433
ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGCG
AAGTTGGTGCCAACACTCCGACnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnCGTCATCACTATTTCTCCAGTGGTATCTGGGAGCCAG
AGTAGCAGGAGGGAAGAGAAGCTGCGCTGGGGCTTCCATGGTTCCGTCTGGGTCCTAACT
GAGCAGCTCCTCCCCCGCGTACCT
Sequence 1434
AACGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTCTTTT
TTGTTTGTTTTTTTTTTCACCTTAAGGGAGGATTTAATTTGCTCCCAACTGATTGTCACT
TAAATGAAAATTTAAAAATGAATAAAAAGACATACTTCTCAGCTGCAAATATTATGGAGA
ATTGGGGCACCCACAGGAATGAAGAGAGAAAGCAGCTCCCTAACTTCAAAACCATTTTGG
TACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnCGCTTGGCCGTAATCATGGTCATAGCTGTTTCCCTGTGTGA
AAATTGTTATCCCG
Sequence 1435
CGGCCGAGGTACTTTTTTTTNTTTGTTTTTTTTTTTTTTCACCTTAAGGTNNGATTNAATT
TGCTCCCAACTGATTGTCACTTAAATGAAAATTTAAAAATGAATAAAAAGACATACTTCT
CAGCTGCAAATATTATGGANAATTGGGGCACCCACAGGAATGAAAGAGAGAAAGCAGCTC
CCTAACTTCAAAACCATTTTGGTACCTGCCCGG
Sequence 1436
TCATACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCAG
GCGAGAGGCGGACGCGAGTCGTCGTGGCAGGAAAAGTGACTAGCTCCCCTTCGTTGTCAG
CCAGGGACGAGAACACAGCCACGCTCCCACCCGGCTGCCAACGATCCCTCGGCGGCGATG
TCGGCCGCCGGTGCCCCNAGGCCTGCGGGCCACCTACCACCGGCTCCTCGATAAAGTGGA
GCTGATGCTGCCCGAGAAATTGAGGCCGTTGTACCGTATATAAAAGACAATTGCTCACAA
TGATAGCACTGAAGCACTGAGAGATATCAAAGTACCT
Sequence 1437
CTATACNGCGAATTGTTTTCCCCGNGGTGNCGGCCGCCCGGGCAGGTACACGGGAGATGA
AGGTGCGCATCCTCTCCGNNCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAAC
AGCTCCGGGAGAAAGCCCAGGAGCTGTCGGACTGGATCCACCAGCTGGAGTCTGAGAAGT
TCGACCTTGATGGGCNAAANCCTGAAACAGCAAGAAAATATGAGATCAACGTGCTGTACC
TCGGC
Sequence 1438
GACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCNTGCA
GAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGGTGCATCCACCAGGGCCACTGGTAn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn

Table I

nnnnnnnnnnnnTCTTGCAGTTTACTACTGTCAAGCAAGTATAATAACTGGCCCCCGTA
CCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGAGGG
TTTAATTGCGCGCTTGGCCGTAATCATGGGTCATAAGCCTGTTTTCCTGTGTGAAAATT
GTTATCCC
Sequence 1439
GACTNCTATAGGGCATTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAGAATATCAAC
AGAGTCTTTTAAATGAAANTGATGGAAAATCAAGATGGTTCTACTCACCGTGGTTGTTGG
TAGAATGTTACATGTATCGAAGAATTCATGAAGCAATTATCCAGAGTCCACCAATCGATT
ACTTTGATGTATTTAAAGAAATCAAAAGAGCCAAAATTTCTATGGGTCACAGGAATCCAT
CATTGCTTTATGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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TGTGTGAAAATTGTTATC
Sequence 1440
TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAAACTGTT
CAATCTTCTCAAAGTGATGGACTCGGAAGATGCCACGGGTGTCACGGCCATGGGAGCCCA
CCTCCTGACGGAAGCAGGTAGACAGGCCAGCATACTTGATGGGCAGGTCCTC
Sequence 1441
CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGC
GGGGATCCAGAATACATTTCCAACAAGAGCACTGGCCAAGTCAGCTTCTTCTGGAGAGTC
TCTAGAAGACATGATGCTACACTCAGCTTTGGGTCTCTGCCTCTTACTCGTCAAGTTTCT
TCCAACCTTGCCATTGCAATAAAAAAGGAAAAGAGGCCTCCTCAGACACTCTCAAGAGGA
TGGGGAGATGACATCACTTGGGTACCT
Sequence 1442
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTTGTT
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GAAAATTTAAAAATGAATAAAAAGACATACTTCTCAGCTGCAAATATTATGGAGAATTGG
GGCACCCACAGGAATGAAGAGAGAAAGCAGCTCCCTAACTTCAAAACCATTTTGGTACCT
GCCCG
Sequence 1443
ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTGT
TTGTTTTTTTTTTTTTCACCTTAAGGGAGGATTTAATTTGCTCCCAACTGATTGCACTTAA
ATGAAAATTTAAAAATGAATAAAAAGACATACTTCTCAGCTGCAAATATTATGGAGAATT
GGGGCACCCACAGGAATGAAGAGAGAAAGCAGCTCCCTAACTTCAAAACCATTTTGGTAC
CTGCCCG
Sequence 1444
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAAACCTGGCCA
GGCTCCCAGGCTCCTCATCTATGGTGCATCCACCAGGGCCACTGNA
Sequence 1445
ATAATTGCGCGCTTGGCNGTAATNCATGGTCATAGCTTGTTTTCCTGTGTTGAAAATTGT
TANTTACGCTCACTAATTTCCAACACAAANCAATTACTGNAGCNCGGGGNAGTCATTAAT
AGTTGGTTAAAAAGNCTCTGNGNGGNTGNCNCTTAAAATGGAAGNTGCAGGCCTTAAACN
TCAACCATTTTANATTTGGCNGTTTTGACTGCNTTTCAANTNGTCCTCGACNTTTTTTCC
CAAGNTNCCGCGGNAAAAAACCACTTGGTTCCCNTTGNCNCCAGTCTTGGTCAATTTTAT
ANTGNAAAATTCNGGGNCCCAAAACTGACNGTCCGTGNGGGGAAGGAAGGGNTCGGGGTT
NTTTGGCCGGTNTATTTNGGGGGGCCNGCCTTACTTTTTCCCGGNCTTNNCTCCTTCGGN
NTTCCAACTTGG
Sequence 1446

Table 1

CCGGGCAGGTACACAGTAAACAGCATTCCTCACTTCGCTGAACAGCANNAGGCAACTCGT
TTCTAAGTTCCAAGCTCACTCTTCATAGAGNCTATCCACCTTGGGCTNG
Sequence 1447
ATTGGTTATCCGCTCACAAATTCCACAACAACCATACGAGCCGGGGAAGNCATTAAAAGT
TGGTAAAAGCCTGGGGGTTGCCCTAATGGAGGTGAGNCTTAAACNTCACAATTTAATTTG
CGTTTGGCGGCNTCACTTGCCCCGGCTTTTTTCCAAGTTCGGGGGAAAAACCNTGGGTTC
CNNTTGGCCCAANCNTTGCCAATTTTAAATTGGAAAATTTCG
Sequence 1448
TACCAGAGGCCCTGGTGGAGGCACCATAGATGAGGAGCCTGGGAGCCTGGCCAGGTCTCT
GTTGGTACCTGCCCGGGCGGCCGNTCGACTGTTGGACTTGAACCAGCGCGCGTTCAAGAA
GTTTGCCGGGCAACCGCACCAGCGCCTTNGNCGAACTTCGACCGGCCAGCC
Sequence 1449
CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCTGAGGCACCAAGG
TGGCCTTCGCTCTCTTGACATCTTGGTCGTCTGCGTCCGGCGCTTTCCTCTTGACGGACT
GAGGCGCTGAACTGGCGGACGAACCCTGGCTGGCTTCCTTCGCGCCTTTCAGCTCGGCCA
CTTTCTCTCGGTGCTGCTTTCCCAGGACGTGAGTCTGCCACAGGAGCTCGCTCTTAACCG
GAGTGTTACACAGGGCACAACTCAGCTGCCCCAAACGGTTGTACCTGCCCGnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGT
CGACCTCGAGGGGGGGGCCCGGTACCCAAGCTTTTTGTTCC
Sequence 1450
TACCANTGGCCCTGGTGGATGCACCATTAGATGGAGNGNAGCCCTTGGNGAGCNCTNGGC
CAAGGATTTTCTTGCTTGGGNTANCCCTNCGGGCCCGNTTCTTAGAAAACTTATGTTNGG
TATTCCNNCCCGGGGNCTTGCNAAGTGNAAATTTCGNAATAATTCCANAAGCCTTTTATA
CGGTATTAACCCCCGGATCNGAACNCNTTCNTAAGGGGGGGGGGGGG
Sequence 1451
ACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT
TTTTTTTTTTTTTTTTTTTTTTTTTNGGCACAGTATCTCACTCTATCAGCCAGGCTGGAGTG
CGGNGGCATGATCACCGCTCACTACAGCCTTGAACTCCTTGGCTCAGGNGATCCTCCCAC
CTCANCCTCCCAAGTAGCTACNACTACAAATGCGTGCCACCACACCGGGTAATTTTTTTG
GATTTTTTGTAGGGACNAGGTTTCACCATATTGCCCAGGCTGTATCCCCTNTTTANACTC
ATGCACTCTNTGTGGAGCAGGAACTACACTACTCTAAGNGATTCTGATTCTCCTCTNAAA
TCCCATCGGTCACCCCAANAAAAGCACTCACTACAATTCTTTCCCATAAGGAGAAATAAT
TAT
Sequence 1452
CCGCGGTGGCGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGTCCATC
TGCCCAGTTTTATTGGGAACAAGGGCATTATAACTGCTATCAAAGAGAAGGGAGCCCAAG
GGCTCCTTCTGTANCAAGATCCTTCTTCANAGTTTNAGCCAGGGCTGGGAGGGTAAGANA
CCCTTTTTTCANGCAGGGTCACACTACCACCCTCAGCATGACTTCCCCAAAAAGTTATCC
TCCTTTAGCTCAGCACTTGGCACTTNAGGAAGAAAGGACCAA
Sequence 1453
CGGGCAGGTCGAGCTCCGGCGCACGATGCAGAACCTGGAGATCTCGCTCTTGCCGCTCTG
CACCAGTTCGCTGTTGGTGGCCACCTCGCGGTTCAGCTCCTCTGTCTTGGTGAAGAACCA
ATCTTCGGCATCCTTGCGGCGGACGCGTGGGTCGACTCACCTnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTACCGAAGCC
GGAAGCATNAAAGTNTAAAAGCCTGGGGGTGC
Sequence 1454
AGGTACTCCATCGCCTGCTGCTTCAGCTTCTGCAGCTCCCTAGTGGCCCCACAGCTGCGG
CCGCCGCCTTCTTCCTCCATGATGAAAACATCTGAGACTCAGGGCTAAGCACCTTGCCCA

Table 1

AGGCCACACAACAAGTAGGTGATGGAGAGTGTTGGCGTGTACCTGCCCG
Sequence 1455
CCGCGGTGGCGGCCGAGGTACCANNGACCTCTAACTCCCCCTGACACAGAGCAATTAGAC
TCCCATAACAATGGTATCAATTATACCACTCCATTGGAGGGACTTCCTTTATGTGTCACC
CAGGATACATTGCTCAACTGCAGTTGCCTTGCANTTTGATCCCAAGCATGGNTGAGTTAC
CATAAAAAAATTATGTACCT
Sequence 1456
CCGGGCAGGTACNAGACAGAGTCACCATCACTTGCCGGTCAAGTCAGACGATATCTATGC
ACAGTCTGCGAGCTGAAAACGGACCCTCACTTTTGGCCGGGGGACCAAGCTGAAGATCAA
CNCGNAACCTGTNGTGCTGCNCCAATCTGGTTCTTTAATCATTCCCCGCCCANTCTTGAT
GNAGNCACGNTATGAAAAATCCTGGGAAACTGGCCCTACTGGTTTGTTGTTGNCCATGTC
TTGAAAATTAAACCTTTCTTATCCCCAANNAAGNAGNGCCTCANAANGNATNNUGCNTTC
TGTGTCACCGNCTTTCCTTATGGAAAACCTTAATGTTNGTGTANTACNCCCCCCACTGTG
GGTCCTTNGTCNAATGNGGTAAAATTTTTCC
Sequence 1457
CGGGCAGGTACTTCCTGTGGAACTCCCTGGAGATGAAGCCATGTTCGTCCTGGCGCTCTT
CGTGCTTGCCGTGCACCTCAATCACGTTTCCCAGAACCTTGACTTTGAGTTCCTCTGGAG
AGAAGTGCTTCACCGTCCAGNTTCACAGGAGAACCCTGTNCTTTTCCATACGCATNTTCT
GAATAGCCCAGTGTTCAATTCCAACTAGGGTGCCCCNC
Sequence 1458
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGATGTCACCGGCAGCATAGATATCAGGAAGG
GATGTGTGCATATGATCATCCACTTTCAGGCCACCATCTTCCCCTAGATCAAAACTGTTA
CCATGGAGAAAAGGTTCTACATTTGGTGTAACTCCTGTANCACTGACAATGAAAGCGCAG
CCATATATCTTTTCATTGGTCAATTCCACATAGACAGGCCACATCTCTGTATCGGCTGTA
ACTGACTTATGGTCTCTTGGAAAAGTGAAGGACTTTTTCTTCAAAATTCTAAACTCATCC
TGAAGGTAGATTTTCTTTACTTCACACATAGTTTCAAGGTGAATCTTATGAGAAAACTCT
TTTGTTCCTTTAAGATTCAAGCCTTCATGCCAAATCTTGG
Sequence 1459
TCGAGGCCGAGGTCTTGCGGATCTGGCGGACCTGCTGGTGCTGCGCATAGGATGTCTTTC
TAATCTGGTTGTTACGTTTCTTAGTGAAACCAACACAGAAAAGTCGGAGCAAAATA
Sequence 1460
CCGGGCAGGTACATAAAATGGCAAGAGTGCATCCTTTAAAGCTTGCACATGAGAGACTTG
GAAACAATCTTATTAGAATTGTGAAAATTCTAAGTAGTCAAAAAAAATAAAAAAAAATAA
AAAAGAAAGTCAAGTACGTGCCAAGCATNCTNGTGCGACCGCGAGAGCCCGGGGAGCGGG
GGCTTGC
Sequence 1461
TAGGGCGNTTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATGAATGTAATTCATAATT
TAAAAGGAAAACTAAAAACTATTTTGATTTGGGAAAATGAGCCTTAATTTGTTAAACCTA
TACACTGAGAACTAGCCTCAGGCTTAATATTCTCATTGCATTTGCAAGATCTGAGCAAAT
AAGATTAAGTAAAACAAATCAATTGTATATATAATTGACCTTTTTGTGGAACATGTAGTT
TATAGAAAGTATACTCTAAAGGGAATTTGCCGAAGACCTTTTACTGATTGAACAGTTGTG
CTACAATCAACTTTTCATAGTACCTCGGCCCGCTCTAGAAACTAGTGGATCCCCCCGGGC
TGCAGGAATTCCGATATCAAGCTTTATCGATACCGGTCGACCTCGAGG
Sequence 1462
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCGGATTTTG
AATTTCGTGATTTTGGTTTGGTATAAACGGTAAAAGTGTGTGTGCCCTCTTTACCTGTTC
TTTGTCTTGTGGTATGTGTGGTGTGAGCGTGGTATTTTGTCTGGAAAAAAAAAGAAAAAA
AAAAGTA
Sequence 1463

Table 1

CGGCCGCCCGGGCAGGTACTCAGTGGATGACGAGTGCTTGGTTGAAATTGTTGAAAGGCC
TGTGTTCTGAAATACCTGGGCCGTGTCCAGTGAGGCCNAGGAGAATTTTTATNGAGCATC
TTTTGCCAATGAANAAGAANATTAAATATTGACCACTTACCTTGATCCCAAACGCTCCTG
ACTGGAAGANTGGCACCATGNCGTGTTTTTATTNGAAGCTAAAGGCNANTAAAANNGTAA
AGTAGTGCTCATTCANAANNTATNTTNGGNAAANTTTGTCNCNNANTCCAAANAAACTTT
ACCANANGCAANATTTNACCTTTCCCAA
Sequence 1464
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATAGCTGTAAGGAGA
AGCTGAGAAATGATACCCAGGAGCAGCAGGCTTTACGTCTTCAGCCTAAAACCTAAAAAA
AAAAAAAAAAAAAAAAAAAATTTAAAACAGCTATTAAACTGAAAGCATCTGTANTTAAAA
AAAAAAAAAAAAAAAAAAAAAANGTNCCTN
Sequence 1465
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGAGATCACTTGCACTTTTCCTCATTTCTTAA
GAAAATCCAGTTTGCTTGCCATGACTTGTTTAGCGTTAGGTTTACAAAGCTTGTTGTTGA
ATGTTGAATATTTGTCCAAAGGAGTTTGACAAAATAGAAGCTGCTTGGTCCCTGTTCTGC
CTGCTAGGTCATAAGGATGAAGGCCATGTGGCTGGGGTACCT
Sequence 1466
CCGCGGTGGCGGCCGAGGTACTTTTCTTGAACTCAGCATTGCTGCCCTGAACCCTCCCCC
AGCTGCCTTCCCTACTTTGGGAGCCTCTATTTCTAGAACAGGAAAACGCTAGGCTAAATA
TATGTCCTAATGGTCTCTTCCATCGGTGTGAAGGAAAGAAAATGGGCCCAATGTTGTTGC
AAGGATTAGGGAAGGTCCTGCCTTGCCACCCAGTGGGTTTAGAAATCCATCTTTACGGCC
TCCAGAGAAGCTGGTGATCAGGTTCCCAGACATCAGCAATCCTGTTTCCTGAGGAGCTTG
TGGGGGCTCTCTCTGGGGATGAATCTGGGTCCTAGACAAAGAGCCACAACTGATGGGGGT
CACTGGGATTGCAGGGGGCCATGGGCTGGCTTTTTGTCCTGG
Sequence 1467
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACGGCTAATGTTGCTG
CTAACACTCTGACnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnCGTCATCACTATTTCTCCAGTGGTATCTGGGAGCCAGAGTAGCAGG
AGGAAGAGAAGCTTGCGCTGGGGCTTCCATGGTTCCGTCTGGGTCCTAACTGAGCAGTTC
CTCCC
Sequence 1468
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAGGAGTGAGTCCC
TATGCTGACCCCAATACTTGCAGAGGTGATTCTGGCGGCCCCTTGATAGTTCACAAGAGA
AGTCGTTTCATTCAAGTTGGTGTAATCAGCTGGGGAGTAGTGGATGTCTGCAAAAACCAG
AAGCGGCAAAAGCAGGTACCCTAGCCATGCTGAGCTGCAGAGGCCACAGGACAGCTCTCC
CCGCGTACCTGCCCGGN
Sequence 1469
CCGCGGTGGCGGCCGAGGTACTGCGCAGCAAAACAATTCTATCTTCTTAATAGTTCTTCT
ATGTCTTTCCCAGTGTTTACTGAAGAAGCTTCACCCTTGAAACGTCCTTTCTCCACCTCC
ACCTCTACCTAACAAAGTCCCCCGCGTACCTGCCCGGCCGGCCGCTCTAGAACTA
Sequence 1470
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAATGGTTTTGAAA
GTTAGGGAGCTGCTTTCTCTCTTCATTCCTGTGGGTGCCCCAATTCTCCATAATATTTGC
AGCTGAGAAGTATGTCTTTTTATTCATTTTTAAATTTTCATTTAAGTGACAATCAGTTGG
GAGCAAATTAAAATCCTCCCTTAAGGTGAAAAAAAAAAAAACAAACAAAGTCCT
Sequence 1471
CCGGGCAGGTACCACCATGGACACCTATAAGGAACTGATTGAGAGGATTCCTGAGTTGAA
CAAAGTGGCACGAGCAGCTGCAGAGGTCGCTGGTCAGTTCGTGATTAAACTAACCCATGA
TGTTGAATTGAACCTGGACTATGAGAGGTACTCTTTTTTTTTTTTTNTTTTTTTGAAAACT

Table 1

TTTTATTGCTCTTTTGGATAGAAACGGGAATTTATTTGCCAGGAAGGATGATCCCATCAT
ACTTCTGCTGGAACCAGCGCATGGCCTCCTCTTTGCTGATTCTGTGTTTGGCCCCAATGC
AGCCTGTCCTGCGCTTCTTGTCTGCGATGCTGAAACCTGGCCTACCCAGCACCACATNNN
AAGTCCAGGGCCGTTAGATACCAATGCTT
Sequence 1472
CGGGCAGGTACTTACAAANTGCCCCATTCTNTTCATCTGAAAATGTCCCCGAGCCTTTTG
GAAACAGGNGCAGGGCATNCANANTNTTCCCANTTTTTATNGAACTTGANGNACGGTTNC
AACNANAANNNNCTTAATTTCTACANACATCTTTNTTGGGTNATTTGTTACCGAAGNTCC
TCCTTATTTGAGACCCCACCTAGACACCGACCTTGNANATTGGAACAAGTAAGCCCCTNT
NCNTTCNTACAATTGNAAATGGTANCGTGGGAAGAAAGCCTTGGTTNGAATTTTANAACC
CCCTGANTTNATNGTTGNCCCATGGNACCCAGGGGAACCAATTGGGTTTTTTTTAANAAA
AAA
Sequence 1473
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAACCTCTTGGTCAAACATGGCATG
CCACCATCTTTTTCAAAGCCCAATATTGAAGGTGCCCCAGGGGCTCCTATTGGAAATACC
TTCCAGCATGTGCAGTCTTTGCCAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGC
Sequence 1474
AGGTGTCGACCCACGCGTCCGCAAATAATGTTAATCCACACACCAAAAGGACGAACCTGA
GCCCTAATAATTGTATCCCTAATTATATNTAATCGGGCTCAACCAACCTTCTAGGGCTTC
TTCCCCATACATTTACCCCTACCACTCANCTATCTATAAACCTAAGCATAGCCATCCCCC
TATGAGCAGGAGCCGTAATTCTAGGCTTCCGACACAAACTAAAAAATTCTTTAGCCCACT
TCTTACCGCAAGGAACCCCCATCTCACTAATTCCCATACTAATCATCATCGAAACTATTC
AAGCCTATTTATTCAACCGATAGCACTAGCCA
Sequence 1475
AGGTACCGCTTCCCTGAAGAGCTCACCCAGACCTTCATGAGTTGTAACCTCATCAGTGGA
ATGTTCCAGCGAATGGACAAACTGAGAAAAGAATGCCTTTGCTAGTGTTATCCTGTTTAG
AAACAACAACAGCAGCTCCATTTCTGGGGTTTGGGTCTTCCGAGGCCAAGATCTTGCCTT
TCTGCTGAGTCCAGATTGGCAGGTGGACTATTGAGTCATATACATGTCGGAAACTGGGAT
CCTGGTAGCCGAGGAGACCTAGACCCTCGTTCGAGACCTGCCCGGGCCGGCCCGCCCCCG
CGGGTGGGAGCTCCAGCTTTTTGTTC
Sequence 1476
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTTTTGGGCANCTAAAATNTAGGATGGNGNNAAGCTTCTTCATTTTGNCAATTAT
ATATAAAAAATNACAAACAACATGAATCNGCATTTCTTGGATGAGATANNTAATAACAAA
CTATTTCTCAATATTTGTATACTAAAAACTAGTAAAGGTGNTATGTGTTTCAGTATCTTA
TCTNTTATTTGAACATGGGTTTCTGAAAGGAGCCTATNTAATAATATAAATGGTATGTAG
TAAANGAGGCNCTGCCTTGGCTGGGACTGCTNTAAAAAAATTACCATAGACCATTGACTA
ANCCACAAACNTATACTTCTCACANNTCTGGAA
Sequence 1477
CGGGCAGGTGTACAAGCTAGCTTGAGTCGACTCAAGCTTAGGGATCTAGACCACGAGCGG
CCGCNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnGCGNAATCATGGTCATAnnnnnnnnnnnnnnnnnnnnnnnnNATCCGCTCACAAATTC
CANACAACATACGAANCCGGAAGCCATAAAGTGTNAAAGCCTGGGGTG
Sequence 1478
AGGTACTTCAGGGAAATACCACCTCCACAAACGTTGAGCCAATTCAGGGGCTGCCAGTAG
AATCCTAAAGAGTGATGTCTCCGGTTCATGTGAACACCATCTGCANTCCACACCCCGCTT
TNAGGGACAAATTTNANNGCCATTAAGNGNNAAGAACCATTGCTTCAAGCCAGAAGCTNG
TCCCCCTTTTNATCCCANTCCCCNAGTTTCACTCACCCCCTTTAAGNCCTCTGGAATATG
GGNGACCNAGTGCCGGAATGGGCCTTCNAATTAAGNCTCNACGGGTAAANGGGGCNTGGC

TCCTNNNCCCNTTCAAGNGGCNTTATNCTCCCNAAGATANANCNCCNAAANTTCTATANG
GGGGGGGCNAATTTAACCGGNCCGNGGCCTTTCNANNTCCCCCAACCAACCNTTTTTTGG
NCAANCCTTTTCAATTAAATTTTTCCCCCCGGTCTAATTGGGCCTTTTCCCCCGNCCTTT
TAAAANAATTGGTTAANCCCCTT
Sequence 1479
AGGTAGTTAATNTTCGGATGGTTCTGAAGCTTGGCTTGAGACCCCCCTCTCCAACACACA
CACACACACACACACACACACACACACACACACACACACGCACACATTATCCAAGCGGAC
GCGTGGGTCGACTCAAGCACCTGCCCGG
Sequence 1480
CCGCGGTGGCGGCCGAGGTACTGTGGAGCTGTTGGGACTGGGCAGGCGGCAAAGATCTGC
AACAACATGCTGTTAGCTATTAGTATGATTGGAACTGCTGAAGCTATGAATCTTGGAATC
AGGTTAGGGCTTGACCCAAAACTACTGGCTAAAATCCTAAATATGAGCTCAGGACGGTGT
TGGTCAAGTGACACTTATAATCCTGTACCTGCCCGGNATNTTAATGAACCGNTGCATGCA
AATCTTNTTTACTTCATNTCCTGTCAGGGCATACTTAANTNTGTTCCTCAGGAAAATGAT
GAGGGGGAGACACTNTCTNAACTTGNGGGGACCNGGTGGATGGACG
Sequence 1481
CCGCGGTGGCGGCCGGGATCGCGGAAAGTGATGGCTGTCGTCCCGGCGTCTCTCTCAGGA
CAGGACGTGGGATCATTTGCATATCTTACAATTAAAGACAGAATACCACAGATCTTAACT
AAGGTTATTGATACATTGCATCGACATAAAAGTGAATTTTTTTGAGAAACACGGAGAGGAA
GGCGTGGAAGCTGAAAAGAAAGCTATCTCTCTCCTTTCTAAATTACGGAATGAATTGCAA
ACAGATAAACCATTTATCCCCTTGGTTGAGAAATTTGTTGATACTGATATATGGAATCAG
TACCTCGGCCCGCTCTAGAACTAGTGGATCCCCCGGGCCTGCAGGGAATTCGATATCAA
GCCTTATCGCATACCCGTCGACCTTCGAGGGGGGGGCCCCGGGTACCCAGCT
Sequence 1482
TACCAGTGGCCCTGGTGGATGCACCATAAATGAGGAGCCTGGGAGCCTGGCCAGGTTTCT
GCTGGTACTGTTAACAACCGGTATTAGAAATTGAGATGTTTTTATTTTGACTATTTGAGA
GTAACATTGTAGATAATGTTCCAAACCATCATCAAAAATGCAGAGCAAACTTTTCTGTAT
ATAAACTGTACCTGCCCG
Sequence 1483
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCATNCCTTGTTTTCTGC
TCATTTCTTNCAGCCTGAGGAACAGACGTCAGAAAAAAAAACAACCACCCAGACAACTTC
CCCTTTTAGCTGAGCTGTCTTCTGACCAATCAACAGGGACCAGCCAAAAAAAAAAAAAAA
AAAAAAAAGTNCCTGCCCG
Sequence 1484
AGGTACGCAGGCGGCAGCCTCACTCTGAATGGACCAAGGCGCCAGCTCCTTGTCCAAAGC
CAAAACCTTTGGGCCCAAAGTTTTTGGCATAGCATCCTTTGCAATAGATCTCACCATCCT
TGTCTGCCAGGGTGGTCGACTCGAGGCCTTTGCCACATTTGGCACATCGGAAGCAGGACT
TATGCCAGGACTTCCCGGCACNCGATCACCTTCTCCGCTGCATAGACTGCCTGGCTTGCA
TCGCGGGACAGCGCTCAGAGCCGCCCGATCTTCTGAAGCAAACTTGGATGCCATTGGGGT
TGGGTGGGTAGCGGGACGCGTTGGGTCCG
Sequence 1485
CCGCGGTGGCGGCCGAGGTACGCCTTCGCAGTTTCCTGCCTGATCCTTCCTCCAGCAAGT
AGGTCACATCAATGGCATTTTTTCCAGGGATTTTTTCAAGGAGATTGAGCAAGATCCGGT
TGAGTCGTTCCCGTTGGTTATGCCGTCGTTCCTCAGGGGTACCTGCCCG
Sequence 1486
CGGGCAGGTCGACTCCTATAGGGTCTAGATCACGAGCGGCCGGCCGCACTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANACACACACACACACACAC
ACACACNCNCACACACACACACACACACAC
Sequence 1487

Table 1

CCGCGGTGGCGGCCGAGGTACTGGGAAAAGGCCACAGGGAGAAGGAAGGCTCCAGCTGAA
CTTTATAGCAATTTGAACTCAACCAGAAGCCTCCTGACCAGAACTCGATGGGAGGGGTGA
AGCTGGCTTGCAGATTCCACAGGTGGGGAAAGAAGGAAGGCTTTATTTGCTTTGCAGCTG
GGAGGTGGGTACCTGCCCG
Sequence 1488
AGGTACAGTGGTTAAATAATTGACTCAATGACAAAAGTGGGATTGGAGTCCCAACAGTGT
GGACATGCTTGCTTTGGATTGAATGTTTGTGTCTTGCCCCATATCCCAATGTTACAGCCC
TAACCACCAATGTGATGGTATTGAGATTAGGGCCTTGAGTACCTGCCCG
Sequence 1489
AGGTACGGGGGCCAGTTATTATACTGCTGACAGTAATAAACTGCAAAATCTTTAAAATTG
AAGGCTTGTTGAATGGTGAAGAAGTGAAACTTTGTCCCAGAACCCACTGCCCACTTGAAA
CCCTGGCTTGGGATACCAGTGGGCCCTGGTGGATGCACCATAGATGAGGAGCCTGGGAAG
CCTGGCCAGGTTTTCTGCTGGTACCTTGCCCGGGCGGCCGCTnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnGCTTATCGATACCCGTCGACCTCGNAGGGGGGG
GCCCCGGTTACCCAGCTTTTTTGTTCCCTTTTAGTGGAGGGTTAATTGCGCCGCTTGGG
CGTAATCATGGTCATAANCTGTTTCCTTGTGGTGAAAATTGTTTATCCGCCTCACAAAAT
TTTCCACACCAAACATACNA
Sequence 1490
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTGTTCCACCAAG
TTATCCAAAACACCAGTGAGGAAATCTTTGCCCAGGGATTCCAACACCTTAAAGTGGGCT
TTTTTTTGTGGGTTGGCCTTCTGCCATAGGGAACAGCCTCCGTCCTTTTTTACAGCGTTG
GAAAACCCCGCGTACCTGCCCGGGCGGCCGCTCGAATCA
Sequence 1491
ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATAAGCATATTGC
TTTGGCAATGCATCTCCAGAGCAGGTGACCCTGGCCGTCTGTCCTGGGGACACTGACACC
GAGGGTGGCTGTGCCAGTTCATAGGAGGCCTCAGAGCCTGTGCAGAGAGTGAGGAGGGGG
AGAAGTAGAGGGATCCAGGCCATGGTGAGACACCCAGAGTTCTGCCTCCTGGACCCACCC
CCGCGTACGTGCCAAGCATCCTCGTGCGACCGCGAGAGCCCGGGGAGCGGGGGCTTGC
Sequence 1492
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCTGGAGACGGCCTGG
GTGCTGGCGAAGCGGAGGCCGGANTAAGAAAGACTGTTAGAAATGCCCCTCGGGTAACAC
AGAAGGCTTGAGAGATCCTGACATAAATCCTTGTTTGTCGGAATCTGATGCTTCCACCAG
ATGTCTGGATGAAAATAACTATGACAGGGAAAGGTGTTCCACTTACTTCTTGAGGTACCT
GCCCG
Sequence 1493
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCTTCACTTGGG
CCACCCACCGTGATTTCTGTCCTGGATTCCCTGAGCCAAATACCCATGATGGGATGGTTC
AGTGATGTGGATGGATGGCTATTTGTGTAAGGGCCGAAAACTAGTTTTCTAAGATGGGAG
AGCTGGGCAGTTACTTATACTCTGAAGCCCTTCTCTTTCTCTGCTGGGGCTTTCCCAGCA
GTTCCTAATAGTTCCTTGTATTTCAGATAAGTCATCATGATTGTTAGGAAAAAAAGAAAA
AAGAAAGTTAGTTTTTAGCCTCCTGACTTCTTAAGTCAAGTGAGACTTTTAAAATTTAGT
AAATAATAGCTCATTATTTTTATGGTAGCTATTTGATTATTTTAATTCTTTAGCAGCACT
GAAGAAATTCAGAGAAGTTCAATAGAGAGTAAT
Sequence 1494
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGTGTAAG
AAGGCCATCTACAATCAAGATTGAGAGTGGCTCTAACAAGTGCCATTTTTCCTTGTTAGC
TTTCATTTCTCAGCCCTTTACAAGATTAAAATAGTCTGCAGTTTAATCTCTCCAAAGCTT
TACGGACAGTGATTCTGTCCTAAACAAGACAGTGACTCCAGGATTTCTGAAGACTATTGT
GGAAGAAGCATCCATTAAGGCCAAGCTATAACATCAGAAATGGTGAATGAA

Table 1

Sequence 1495
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGAGGAAGTGAAGTCC
CTATGCTGACCCCAATACTTGCAGAAGGTGATTCTGGCGGCCCCTTGATAGTTCACAAGA
GAAGTCGTTTCATTCAAGTTGGTGTAATCAGCTGGGGAGTAGTGGATGTCTGCAAAAACC
AGAAGCGGCAAAAGCAGGTACCTGCCCG
Sequence 1496
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAACTGGCCTCAT
CCTATATTCACTTTCGGCCCTGGGACCAAAGTGGATATCAAACGAACTGTGGCTGCACCA
TCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTG
TGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACCTGCCCG
Sequence 1497
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGAGCTTCTCCTTGCCAGT
TTCTCCCAGCANGGACCCTCTTCTTGTTTTGAAAGATGGTCGGCTGCTTTTGGTAGGCAC
GCTCAGTCTGAATGTCCGCCATCTTCCCGGCCGCTCTAGAACTAGTGGATCCCCCCGGG
CTGCAGGAAT
Sequence 1498
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGATTGCATGCAC
TTAAATGCAGATTATTTTGGAGTTTGAAAAGGGACTATTAATGAAATCTTTCTTTTCCCT
CCTTTCTCTTTTTCCCTTCCCCGCCACTGATTCAGTGAGCTGGAGATTGGATCACAGGTA
TAATTCAAGCTTTTTCATGTAGTCATGTAGATCACTAGACTCCTTGGTGTACCTGCCCG
Sequence 1499
ATCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCATT
ACTGCAGGAAAAGGTCCCGGAGAGCTAAGCAGTCAAGATGTGTGACTTCACCGAAGACCA
GACCGCAGAGTTCAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCT
GTACGTGCCAAAGCATCCTCGTGCGACCGCGAGAGCCCGGGGAGCGGGGGCTTGC
Sequence 1500
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATATCAACCAGAGCA
ACATACATGAATAAGCCAGCAGTAAGTGCAAATATCCACATAGAAACATTTTCAGCATAA
TGACCAATGAAAATTCCTGTTGCCATTCCAAGATACGCCAGCATGGCTGACAATGCATTA
TAAAGGACAGCCTGCTTAACGGTCATGCCAGCCTTTAGTAGAACAGCAAAGTCACCTAAT
TCATGAGGCAACTCATGACAGAACACAGCAACAGAAGTACCTGCCCGGGCGGCCGCCCGG
GCAGGTACAAGGGATTGATTTAAACCAAATTCGAGGACTTGGGTTTGATGCCACCGTGTT
CTCTGGGTTGTTTTGGATAAAGCAGTTTCACCCATTACCAGTCAACCAGGAAGGGGGATT
CCCATCGAAACGTCATCATGTGGCTGGACCATCGA
Sequence 1501
CCGCCCGGGCAGGTACCAACAGAAACCTGGCCAGGGCTCCCAAGGCTTCTTCAATCTTAT
GATGCATCCCGACANGGGCCCACTTGGCATCCCCAGCCCAGGTTCAGTGGGCAGTGGGGT
CTGGGACAGACTTCAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnAGCAGCGTAGCAAACTCGTACACTTTTGGCCAGGGGACCAAGCTGGAGATCAA
AACGAACCTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGGCAGTTGAA
ATCTGGAATTGCCCTCTGTTGTGTGCCTGCTTGAATTAACTTTCTTATCCCAGAAGAGGC
CCAAAAGGTACCCTTCGGCCCGCTTCTAGGAACTAGGTGGGATTCCCCCCGGGCTTGCAG
GGAATTTCGATAATCAAGGCTTATTCGNATACCCGTCGACCCTTCGAGGGGGGGGGCC
Sequence 1502
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCATTCGTATTGCGCCGCTA
GAGGTGAAATTCTTGGACCGGCGCAAGACGGACCGGAGCGAAGAAAAAAAAAAAAAAAAA
GTACCT
Sequence 1503
CCGCGGTGGCGGCCGAGGTACGCGGGGGTCACTTCCGGCTTCCTTCAGTCCGCTGGTCCC

Table 1

GAGCACGAGCTGTGAGGGGATTCACTTGTGTGCGGAACTCCTCGGAACCATGGCGTCCCT
TTCCCTTGCACCTGTTAACATCTTTAAGGCAGGAGCTGATGAAGAGAGAGCAGAGACAGC
TCGTCTGACTTTCTTTTTATTGGGTGCCATCGCCATTGGAGACTTGGTAAAGAAGCACCT
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CTTATGACCTAAAGCAAAGGTAAACTTTCTTGAAACT
Sequence 1504
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GTAGTAGGAGACCCATCCATCTCGGAAGGTACCTGCCCG
Sequence 1505
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AGGCCAGGGAACCGTAAAAAGGCCGCGTTTGCTTGG
Sequence 1506
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Sequence 1507
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AAGCCCCAGCTGCCTCCAAAATGCCTGCTTTCAGGGGCCTACGAAGTTGAAGGGGCTAAT
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ACCACCACCCTTACCTCCCTGGCGCAGGCTTCCGGGCAAGATCAAGCAACATTTGTCATT
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Sequence 1508
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GGGGAGTTCAGTGGAAGTTCTGTAAGAATGTGCATGTCCTGCCCG
Sequence 1509
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GCTCCCAGGCTCCTCATCTATGGTGCATCCACCAGGGCCACTGGTA
Sequence 1510
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TGCTGGGATTACAAGCATGAGCCACCATGCCCAGACAAAGCCCTCAATTTCTTACATATC
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Sequence 1511

Table I

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GAATGAAGAGAGAAAGCAGCTCCCTACTTCAAAACCATTTTGGGTACCTGCCCG

Sequence 1512

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AAGTGTGCATGAGTCCCAAGCATCGGATGTCAAACAAGAAGCAAATCACCTGCAAGGATC
GGATGGGCAGCANTCTGTCAAGGAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAGTTCCT

Sequence 1513

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GAGATAGGGTTGGAGGAGAAGTAGCGCCGGGACTTCCGGATGGCAAACTTCTCTGTGGGT
AGAGATTTCCCAGCAATCTTGAGCTTCAGGCCTGGCACAGCTCGAAATAATTCCACTTCG
TCGTCCCCGAACGGCTTGTGGTCCTCCTTCCCAAACATGCTGAGGTAGGCGGCCTTCATG
TAAATGTAGGTGGCCTTTTTAAGTCAGATCATGTCAGTTCCTTCTGGAAATCTGGTTATA
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CACGACGGCCCCCGCGTACCTGCCCG

Sequence 1514

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AAGACCTGNATGTCCTGGACGACCTGACCCAAAAANGGGGCACAAAAGCAGCAGAGCTTC
ACCAGGTGACTGGGGTGGGCTTCTTTTGTCCTCATTTAAATGTACCTTGCCCGGGCGGCC
CGCTCTAAGAACTAAGTG

Sequence 1515

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GCTNTTGTNCACGGTGAGCTTGCTATAGAGGAAGAAGGANCCGTNGGAGTCCAGCACGGG
AGGCCNTGGTTCTTTCCGCGTACCTCGGCCGCTCTAGGAACTANTGGATCCCCCGGGCTG
CACGGAATTNGAATATCAAACCTTATCGATACCTTNCGACCTCCNNN

Sequence 1516

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Sequence 1517

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GGCGGGCGGCTCTATANCTANTGGATC

Sequence 1518

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CATGGAAGCCCCAGCGCAGCTTCTCTTCCTCCTGCTACTCTGGCTCCCAGATACCACTGG
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Sequence 1519

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AAAATAAGTGTGTTAGATAAGACTTGTTCATGCATGAGTGATAGTGCTGTTAGTGTGAAT
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Table 1

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Sequence 1520
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GAAACAGCTTTCACACAATGGAGCTTCATGTCCTCGTGCAGGAAGTACCT
Sequence 1521
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TGGAATAATAAAATTAATGGTGAATGGGTACCTN
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CTTNGCTGCGCTCGGTCGTTCGGGCTTGCNGGCGAAGCGGGT
Sequence 1523
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Sequence 1524
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GCGGCCGCTCGACCGCCTGGACCAACTTGTCGGAAACCACCTTTCTGATGCCGCCCACGG
CAGCG
Sequence 1525
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Sequence 1526
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Table 1

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Sequence 1527
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Sequence 1528
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TTTTTATTCATTTTTAAATTTTCATTTAAGTGACAATCAGTTGGGACAAATTAAATCCTC
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Sequence 1529
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AGCAGTTTCCACATAAAAAGACAACACAAGAAAGAAAAGTGGTTTCTAGCAATCAACAGA
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Sequence 1530
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GCTCTAGAACTAGT
Sequence 1531
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AGTAAAGCCCTTGGGAGATAATTAGGTTTANATGAGGACATGAGGATGGGATCCTCATGG
TGAAATTAGTACCTGCCCGGGCGGNCGCTCTANAACTAGTGGGATCCCCCGGGCTGCAGG
GAATTCNATATCAANGCTTTATCGATACNCGTTCGACCTTCAAGGGGGGG
Sequence 1533
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GCTGTTCTCTTGACTGCCTGNTGGGCCANCATCCGATTGCCANGNCCANAAACGTAAANN
CTTGNCCAANATGGCCAAGNTACCTNGGC
Sequence 1534
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Table 1

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GCTGCCACCTGCTCTTGTCCACGGTGAGCTTGCTGTAAAGGAAGAANGANCCGTNNNGGA
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CTTNTGGACNCAAGAGCCAAGGGTCAANGGCCNTGAACCCCATGGGCTTTTCTTTTGGGT
TCCAAGTCCTTCAANTCCNCNNGGGGGGAATNGNGGGNGNGGCTAGGGNGGNTTGGTTAC
CTCCTTCCGNGTCTCCGGCCTTTNTTNAGGGAAAACCTTANGGTNTGGGGGNATTCCNC
CCNNCCCCGGGNGNACTTTGGNCCAGTGGGAANAATTTCCCNAATTATTTNCAAAAAGGC
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Sequence 1535
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Sequence 1536
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CTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTAGAGATTTACTACATCCGTCCTTGGA
AGAGGAAAAGAAAAAACATAAAAAAGAAACGCCTAGTACCTGCCCG
Sequence 1537
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GATCC
Sequence 1538
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GTCGTAGGCCACGTGTTCCGGACCAAGAGCCCCCACACCTTCCCCAAGGGCACTAGTGTC
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Sequence 1539
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CTCAGCTGCTTCTGAGTCCCAGCATGCCCTGGTTACCTATGGCCCTCTTTCCCATGGGAC
CTGACCTATGATCGGCCCCCGCTCCTAGGCGTGGTGACCAAGATGAAGATGCAGAGGACC
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Sequence 1540
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Sequence 1541
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Table 1

CACCTTGACACTGAGCTCAGGAGCAGCCCATTTAAGAAGCATCTTGTAAATAACAAAGTG
ACACCTTCGAGATTACAGTTGCAGCTATGCAAGTCATTCACAGAGTAGCTGAGGGCTCTC
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GTCTCTTGCGGTCCAGAAATGCCAGGATGGTTGTTTCAAATGCATTGGGTATGAACTGCA
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Sequence 1542
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Sequence 1543
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ATGATTTAACTGTGA
Sequence 1545
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Sequence 1546
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GCATCGGCCTGTACCT
Sequence 1547
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Table 1

Sequence 1548
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CGGAGGTCAGAGGTCAGAAAACAAGGTGTCTGCAGGACCAACCTCTCCTCTGGATGCTCT
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TGGTGTTCCTTGGCTTCTGTCAATATTAATACATAAATCCTTTTCAGTCTCAGCTTCTCT
CTTCACATGGTCCTCTCCACCCCCGCGTACCT
Sequence 1549
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GACGTCCATGGAGGACCTGCCCG
Sequence 1550
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ACTGNACCTCGGNCCGTCTANAACTAGTGGANCCCCGGGCTGCAGGAATCNATATCAGCC
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Sequence 1551
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CAAGGTGGGGTCCCA
Sequence 1552
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Sequence 1553
NACCTGTCCGTGCCAGCTGCATTAATGGAATCGGCCCAACCGCCGCGGGGNAGAGGCCGG
TTTTTGCCGTATTTGGGCCGCTTCTTCCGCCTTCCTTCGCTCACTTGACTTCGCTT
Sequence 1554
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTGGT
GATCGGAGTATAGTTGGAGCGCTTTGTCATGATTTCCAGGTTGGCTTTGTCCACAGCTAT
GTTGGCCAATGCACCTTGAGCCTCAAAGCTGGCAAATCGTCCAAATTCTTCAAGCCGCCA
GACCGTCTCCTTCTTTGCCATATCCACATGGAAAATCTCATCACCCCGCGTACCTnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nCGCTTGGCGTAATTCATTGGTCATAGnnnnnnnnnnnnnnnnnnnnnnTATCCGCTCA

Table 1

CAATTTCCACACAAACATTACCGAGCCGGGAGCATTAAA
Sequence 1555
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTGAAAAGTGCG
CCCTACGAAAGGACGGTCGACTCCGGCGGGGCCCAGGTGCCAATGGGTCATGTTTGGTTA
GAAGGTGACAATCTACAGAATTCTACAGATTCCAGGTGCTATGGACCTATTCCATATGGA
CTAATAAGAGGACGAATCTTCTTTAAGATTTTGGCTTCTGAGTGATTTTGGGATTTTTAC
GTGCCAGCCCTAATGGCCACAGATTTTCTGATGATTAGTAAGCATTTATTCTTTTGACTT
GATTATTTGTCTCCTTTTCATGTGAATTTTATTACTTCCCGTTTTAAACCCGTGGTACCC
TTGCCCGGGGCGGGNCCGCTTCTANGAACTTAGGTGGGAATTCCCCCCCCCGGGGCCTGC
CAANNGAAATTTTTNGNATTATTCCAAAGGNCTTTTATTNCGAATTANCCCCGNTCCTNA
ANCCCTTCTGAAAGGGGGGGGGG
Sequence 1556
CCGCGGTGGCGGCCGAGGTACTTTTTGTTTGTTTTTTTTTTTTCACCTTAAGGGAGGATT
TAATTTGCTCCCAACTGATTGTCACTTAAATGAAAATTTAAAAATGAATAAAAAGACATA
CTTCTCAGCTGCAAATATTATGGAGAATTGGGGCACCCACAGGAATGAAGAGAGAAAGCA
GCTCCCCTAACTTCAAAAACCATTTTGGGTACCTGCCCGGGCGGCnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGTTAAATTGCCGCCGCCTTGGG
CGGTAAATCATGGGTCATAGGCTGTTTTCCTTGTGTGAAAATTGTTTATCCCGCTCACAA
TTT
Sequence 1557
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTCTTTTCAATGTT
CACAGCTACTTCTCCTTTAAGAGAAGCAGAAAGGCAGTTTTAGGTGTGGTCTGTCTTTAT
TCCCCCGAACTTGATCAATGTATACAATGCTTACACATTCAAATATGTGCAAGATTCAAC
AAGGAACACTCTCCACTGCTGTGCTTGAAGTACCTCGGCCCGCTCTAGAACTAGTGnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGCGCTTGGCGTAATCATG
GGTCATAGCTTGTTTCCTGTGTGAAAATTGTTAATCCCGCTTCACAATTTNCACCACAAA
CATACCGAG
Sequence 1558
CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTCC
CAGCTCCTGGCTGACTTCTAGTCTTCTGGTTGAAGCTGCGCCTTTAGATGACACGACCCT
ACCCACCCCTGTTTCCAGCGGATGCCCGGGCCTGGAGCCCACAGAATTCTTCCAGTCCCT
GGGTGGGGACGGAGAAAGGAACCGTTTCAGATTGAGATGGCCCATGGCACCACCACGCT
CGCCTTNAAGTTCCAGCATGGAGTGATTGCAGCAGTGGATTCTCGGGCCTCAGCTGGGTC
CTACATTANTGCCTTACGGGTGAACAAGGTGATTGAAGATTAACCCTTACCTGCTTGGCA
CCATGTCTGGCCTGTGCAGCAGACTGTTCAAGTACCTGCCCGGGCCGGCCCGCTCTAGAA
CTAGTGGGATCCCCCGGGCTGCAAGGAATTCGAT
Sequence 1559
CCGCGGTGGCGGCCGAGGTACCCATTCCCTTGATGTCTACAATATCACCTTTCTTATAGA
TTCGCATATATGTGGCCAAAGGAACAACTCCATGTTTTCTAAAGGCCTAGAGAACATATA
TCGGGTGCCTCTCCTCTTTCCCTTTGTGTTCGTCATTTTGGCGAATTACTGGAAAGATGG
CGGTTCCCGGCCCGCTCTAGAAACTAAGTGGGATCCCCCGGGCTGCAGnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnAGTGAGGGTTAATTGCGCCGCTTGGCGTAAATCATGGTCATTAGCTTGTTTCCCTGTG
GTGAAAATTNGTTATCCCGCTTCACAAATTCCACACCAACCATTACCGAAGCCCGGGGAG
CATTAAAAGTNGTTAAAAGCCCTGGGGGTGCCC
Sequence 1560
TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAATGATAAAACCATTGA

Table 1

TGAGGAACTAGAACGGGACAAGAGGGTCACTTGGATTGTGGAGTTCTTTGCCAATTGGTC
TAATGACTGCCAATCATTTGCCCCTATCTATGCTGACCTCTCCCTTAAATACAACTGTAC
CTGCCCGGGCGGCCCGCTCTAGAACTAGTGnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnCGCGCTTGGCGTAATCATTGGTCATAGCTGTTTCCTGTGTnnnnn
nnnnnnnnnnnnnnnnnnnnnCACACAANCATACCGAANCCGGGAGCCATAAAGTGTAAA
GCCCTGGGGTGCC

Sequence 1561

AGGTACAAAAAATATTCATATAAACGTTGTTCACACGTAGGTCCTAGATTACCAGCTTCT
ATGCAAAAAAAAGGAAATGAAGAAAAATAGATTTGTTAACTAGTATTGGAAACTAACTTTG
TGCCTGGCTTAAAACCTCCCTCACGCTCGTCTGTCCCACACAAATGTTTAAGAAGTCACT
TGCAATGTACCTGCCCGGGCGGCCCGCTCTAGAACTAGTGnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnGAAATTGTTATCNCGCTCACAATTTCCACACAACATACCGAAGCCGGGGAGCCATA
A

Sequence 1562

CCGCGGTGGCGGCCGAGGTACAAAACTTTTTAAATTTTATATTATTTTGAAACTTTGCTT
TGGGTTTGTGGCACCCTGGCCACCCCATCTGGCTGTGACAGCCTCTGCAGTCCGTGGGCT
GGCAGTTTGTTGATCTTTTAAGTTTCCTTCCCTACCCAGTCCCCATTTTCTGGTAAAGGT
TTCTAGGAGGTCTGTTAAGGTGTACCTGCCCGGGCGGCnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTCNACCTCTTAGGGGGGG
CCCGGTACCCANCTTTTTGTTCCCTTTTAGTGAGGGTTAANTGCCGCCGCCTTGGCCGAT
AATTCATGGGTCATAGCCTGTTTTCCTNGTGNGGAAAATTGTTTATNCCGCNTTAACAAN
TTTCCACCACAAA

Sequence 1563

CCGCGGTGGCGGCCGAGGTACTATTTACAAAGCATGAATTCACTACAATGCTCAACTGTT
TGTTTAGCTTTATCTCACTTGGGGAATTTATTCCTGTCTGCTGCATTGTAGGTAGCTGGG
TAGGATATATTTCCACTTGCTTTTTAAATTAAGTTCTTCACCTCCATTGACACCTCGGTT
TTTTNGGTTTTCTCCCTATAGTGTTGGGTTGGGTGCTAAGACACCAGTCTGACCCCCAGA
AATGGGGAGGTTATTTCNATCCATCTTTTCCTCCATCCTTTCCAAAAACCACATATCTAC
ACAAGGGAAAAATTTAATACATCTAGGAATTTTTTTTTTTAATTACAAGCTATTTAAAGA
GATGAATGTGGCCAAAGTTTTACA

Sequence 1564

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACTGAGCACATAGC
ACCAGAATATTGGAACAGATGCTTCTCCAAAGCCAAGGGTTGCCTTACATTTAGAGTGGG
AAAAGAGGAAAATGAGTTAGCAGAGGAGCAGCGGGGAGGGGGGTAAATTACAGGACATAA
TTTGCTTCTAAAAATTTTGTGTTCGTGTTGTAGTTATATAATTAACTTTTCTATTGTACC
TGCCCGGGCGGC

Sequence 1565

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGAGCATTATAATATTGCTnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnTCGGTCAGGGACCCCGGATTCCCGGGTAGATGCCCAGTTAAT
GAGCAGCTTAGGAGACTGTCCTGGTTTCTGCTGGTACCTGCCCG

Sequence 1566

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG
GGGTTCCCAGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGGGAA
GAGATGGATCAAGATGGTGAAATAGAAGACTCCACCAATCATCCCCTTCACACGAACACC
AATTTAACAACTATCTACATGCACACACACAAAAGCTTCATCAATTTAACAACTATCTAC

Table 1

ATGCACACACACAAAACCTTTGTAAGAACTCAAAATCAGATTAAGAAGAAACAACAAGAT
GTGCTTGGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAAT
GAAGAGAATCGGAAGTGGATGAGAGAAAATGTACCT
Sequence 1567
CTATACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTTTTTGTTGGTTTTT
TTCTCCCTCAAAGTGAAATGNNAGACTATTGTAGGGTTTTGAGCCAAGGAGTGATATTAT
CTGAATTCTGTTTTAAAAGGNTCATTNTGGCTCCTGTGTGGAGGCAGGGTAGCTACTTAN
AAACCAAGCCATCTCAGCCTCCCGATTTGTAAGAGATGTGGTCTCACTATGTTGCCCAGA
CTGGTCTTGAACTCCTGGCCTCATGTGATCCTCCCACCTTGGCCTNCCAAAATACTAAAA
TGATAGATATGAGCCGCCACACCTGGCCATAAGCTTCAGCCTTGAGCAGATACTTTCTAA
ACACTTTATATAGGGAAAAAAAACTAATTCTTTGCGTAGCCCAAGGTGTTCATTTTTGCC
GAGAATAACCGTAGCCATANGTGTTTACAATTACGTGGGTGGTAATTT
Sequence 1568
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAAGGAGAAATAGAACATGT
GCAGGCAAAAGAAGAAAGGCGCGGGCTGGGTGGGAAGAGGATTCGGACTCGTCACACTGC
AGAGCAGCAGAGCGAGAAAGGATGAGAAGAGGCAGAGAAGGCGACGGCAGAAGAAAAAAG
GAAAAACTGCGGCCCGNGATCANAGCCTGAAAGTGTCCCGCGTACCTnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnTNnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGCTT
GGCGTAATCATGGTTCATTAGCTNTTTCCTGTGTGAAATTGTTTATTCCCGCT
Sequence 1569
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGCGC
TTTAGGCTGGCCGGCGGCGCTGGGAGGTGGAGTCGTTGCTGTTGCTGTTTGTNNAGCCTG
TGGCGCGGCTT
Sequence 1570
CGAGGTACCATCATGGCTTGAGTGCTCTGAAGCCCATCCGGACTACTTCCAAACACCAGC
ACCCAGTGGACAATGCTGGGCTTTTTTCCTGTATGACTTTTTCGTGACTTTCTTCTCTGG
CCCGTGTGGCCACAAGAAGGGGGAGCTCTCAATGGAAGACGTGTGGTCTCTGTCCAAGCA
CGAGTCTTCTGACGTGAACTGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGA
AGTTGGGCCAGACGCTGCTTCCCTGCGAAGGGTTGTGTGGACCTTCTGCCGCACCAGGCT
CATCCTGTCCATCGTGTGCCTGATGATCACGCAGCTGGCTGGCTTCAGTGGACCACCTTC
CTTTGGAGACTGCTCCATCAGTGCCGAGGTGTGTGGGAACAGGCTTCACTGCACCGCCAT
CTTACTGAGTTGCTTCACGTGAGGAAAAGGGGGCTTTGGCCCTGTGACTCAGTTCCACAT
TTTGGATTGCATACTGGAAAAGAACCAATCTTCTTGCTAGTAAACCAGCAACCCGGCTGT
ATACAGTGGTGACCCAAGCAATGGATATAAACCTAAAAATCTGANGGAAGGGAGAGGTNG
AATACAGTANTTCTTGGAATCTGAAGTCTNCTATTTGATCAAGGTTATTTCCTG
Sequence 1571
CGCGGTGGCGGCCGCCCGGGCAGGTACATGATACATGACCCCAGGTTCCAGTGTAGAACC
TGAGTCCCCCATTCCCCAAAGCCATCCCTGCATTGATATGTCTTGACTCTCCTGTCTACT
TTTGCACACACCCTTAATTTTTAATTGGTTTTCTTGTAAATACAGTTTTGTACACTTTTG
GTCAGGGGACCAAGCTGGAGATCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCC
CGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACT
TCTATCCCAGAGAGAACAAAGTACCTTGGCCGCTCTA
Sequence 1572
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGAGTTGCTACGCTGCTn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTGCCAGTGGCCCTGTTGGATGCATCATA
GATGAGGAGCCTGGGAGCCTGGCCAGGTTTCTGTTGGTACCTGCCCGnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn

Table 1

nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGCT
TGGCGTAAATCATGGGTCATAGCTGTTTCCTGTGGTGAAAAATTTGTTTATC
Sequence 1573
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACTCTCCTAGATTAGGAGTTT
AGGTTGCCCCAATACCCATGCAGAGAACTTGGAGCTGAAAGGTTCCACAGCTTCAAACCT
AGGCATACTTGTGAATGCGTGGTGGCCACCCATTGATTATCCCTTGGTGCTAGTGCTTGT
ACCTGCCCG
Sequence 1574
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGAGAGAGGGAGAGAGA
GAGAAAGAAGAGCANGAAAGATCCCGAAAGGAGGAAGAGGTGGCGAAAAATCAACTGCCC
TGCTGGATTTGTCTTTCTCAGCACCTTGGCGAAGCCTTGGGTTTCTTTCTTAAAGGACTG
ATTTTTAGAACTCCACATTTGAGAA
Sequence 1575
CCGCGGTGGCGGCCGAGGTACANGGAGATGTGGAACCTGGTTCCAGGCAAACCAACGCTT
CCAACTCCAAAGAGTTGGGGGTTGTTAGAGAGCCCTTTCCCAGAAAGCCCGACACTCATG
TCTTTAGTCTGGCAGCTGCACTAGTCACTTTCAACTGGCTGACAGGTGCCCAGTATTTAG
CCCCCAAATTCTAAAGGAAAAAGTTNGGACAAGAATAGCAAGTGAAAGGGGATCCGATGG
TACCTTGCCCGGGCGGCCCGCTCTAGAACTAGTGnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnAGCTTATCGATACCGTNCGACCTCGAGnnnnnnnnnnnnnnnnnnnnnnnTGG
TTCCCTTTAAGTGAGGGGTTAAATTTGCCGCGCTTGGCCGTAAATCATGGGTCAATAAGC
TGTTTTCCTGGTGTGAAATTGT
Sequence 1576
AGGTACTGGCTGTCCACCCCTGAGCCCATGCCCATGTCAATGGCACCCATCACGGGGGAA
AACATAAGACCATTTATTAGTAGGTGTGCTGTGTGTGAGGCGCCTGCCATGGTGATGGCC
GTGCACAGCCAGACCATTCAGATCCCACCGTGCCCCAGCGGGTGGGTCCTCGCTTGTGGG
ATCGGCTACTCTTTTGTGATGCACACCAGCGCTGGTGCAGAAGGCTCTGGCCAAGCCCTG
GCGTCCCCCGGCTCCTGCCTGGAGGAGTTTAGAAGTGCGCCATTCATCGAGTGTCACGGC
CCGCTCTAGAAACTAGTGGATCCCCCGGGCCTGCAGGAAATTTCCGATATCAAGCTTAT
CGATACCCGTTCGACCTCGAGGGGGGGGGCCCCGGTTACCCAAGCTTTTGTTT
Sequence 1577
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGTGCACACCCCCACTCC
CACGGTGTGGGTAGTGCCGTGAATTGGAAACCGCAGATACCCTGGAGGCCTGGTAGGCAG
CTGACTGCCCAGCACTGGGCAGACTGATAGTCCGTAAGTCTGATGGCAATGACNACCTAT
AGTTCTGAGGAAAAGGAAGGTGGAACTCAAAATTTCCTTGTGCTTGGACTTGAGAAAACT
GNAATCTTGAAGGTTTGGCCGAAGTT
Sequence 1578
ATCGACGCTCAAAGTCAGAAGGTGGCCGAAACCCGACAGGGACTATAAAGATACCAGnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnCGCCTTTCTTCCCTTCGGGGAAAGCCGTGGCGCCTTTCTCATTAGCTCACCG
CTTGTAAGGGTATTCTCAGTTTCGGTGTTANGTTCNGTTCCGCTTCCAAGGCCTGGGCCT
TGTGTTGCACGAAACCCCCCCGTTC
Sequence 1579
TCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCGGCCCCAGAG
CTCCTGCCAGTCTGGGCGACAGCTAGCTCTCCGCCTCTTCAGCAAAGTTCGGCCCCCTGT
TGGGGGTATCTCTGTTAAGGAGCATTTTGAGGTAAATGTGGTGCCTCTCACCATCCAGCT
GACACACCAGTTCTTCCACAGAATGATGGGCTTTTTCTTTCCTGGCCGAAGTGTGGAAGA
TGATGAAGTTGGTGATGAAGAGGATAAGTCCAAACTGGTGACTACTTGGAATACCAGTGG
TGAAGCCTCGGCAGCTGATTGCAACAAGATGATGCAGTACCTTGCCCGGGCCGGCCGCTC
TAGAAACTAGTGGATCCCCCGGGGCCTGCAGGGAAATTCGATATCAAGCCTTATCGATA

Table 1

CCCGTTCNACCTCGAGG
Sequence 1580
TCGCACTCATTTACCCGGAGACAGGGAGGGGCTCTTCTGCGTGTAGTGGTTGTGCAGACC
CTCATGCATCACGGAGCATGAGAAGACGTTCCCCTGCCGCCACCTGCTCTTGTCCACGGT
GAGCTTGCTGTAGAGGAAGAAGGAGCTGTCGGAGTCCAGCACGGGAGGCGTGGTCTTGTA
GTTGTTCTCCGGCTGCCCATTGCTCTCCCACTCCACGGCGCCCGCGTACCTnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnNG
ACCTCGAGGGGGGGCCCGGTTACCCAGCTTTTTGTTCCCTTTAGTGAAGGGTTAAATTTG
CCGCCGCTTGGCCGTAAATCATGGTCATAGCTGTTTT
Sequence 1581
CTATCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGG
AAAGAGAGAGCCTTCTGGTGAAAATCAAAGTCCTGGAGCAAGACAAGGCAAGGCTGCAGA
GGCTGGAGGATGAGCTGAATCGTGCAAAATCAACTCTAGAGGCAGAAACCAGGGTGAAAC
AGCGCCTGGAGTGTGAGAAACAGCANATTTCAGAATGACCTTGANTCAGTTGGAAGACTC
AATTATTCCCGCAAGGGAGGAAGGCTACTAGGAAGNATAGAATCGGAAAGAGAAAAGAGT
GAGAGAAGAGAAGAACAGTCTTAGGAGTTGAGATCGAAAAGACTCCAAGCTGGNGATCCA
AGAAGAATTTGTAGNAGAGGTGCAGGCGTTTANGCTTGGAGGGATTTCTTCCCCAGGGAG
GACCCCCAGACCNCCANTTTTTGNAAAACCAGGAAA
Sequence 1582
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTGGTTTGAGGGGGAATGCTGGAGATTGTAATGGGTATGGANACATGTCAT
ATAAGTAATGCTA
Sequence 1583
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANGCCTCTGGATTCACTTT
TGATAATTATGTCATGAATnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTC
GGCAATCAGTGGTAGTGGCGGTGGCACACACTACGCAGACTCCGTGAAGGGCCGGTCCAC
CATCTCCAAGAGACAACTCCAAAGAACACACTATATTTGCAAATGAATAGCCTGAGAGCC
GACGACAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnATTTGNCGCCGCTTTGGCGTTAATCATGGGTCATAAGCNTGTTTTCCTGTG
TGAAATTTGTTTATCCCGCTCACAAATTTTNCACACCAACATACCG
Sequence 1584
NGGAGCTCCCCGNNGTGGCGGCCGCCCGGNCAGGTACACGCCCAATGAGATCTGCGTCAT
CCAGAGAGGAATGCGGTTCAGCATAGATGTCTTTGAGGAGACCAGGGGCTACATCTTGGA
GGTCTATGGTGTCCACTTTGAGTTACCTGACCTTGGACCAATTGGGGCCAATGGCTTGGC
CAATCCTCGTGATTTCTTGATACCCATTGCCTGGGTATGAGGGATCGCCAAGTTACCTTn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnCNACCTCNAGGGGGGGGGCCCGGTACCCCAAGCTTTTTTGTTCCCTTTTAGTTG
AGGGGTTTAAATTTTGCCGCCGCCTTGNGCCGTNAAATCATGGGTTCATTAAGCCTTGGT
TTTCCC
Sequence 1585
GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGAGCGGCCGCCCGGGCAGGTACC
TATGATTGAAAACAGTAGTTGGTCTATGACTTTTGAGGAGAGGGAGAACCGAAGATTACA
GGAGGCCAGCATGAGGTTGGAACAAGAGAATGATGACCTTGCCCATGAACTAGTAACAAG
CAAAATTGCTCTACGGAATGACTTGGATCAGGCAGAAGACAAGGCAGATGTGTTGAATAA
AGAGCTCCTTTTGACCAAACAGAGGCTGGTGGAGACTGAAGAGGAGAAGAGGAAGCAAGA
GGAAGAGACTGCCCAGCTAAAAAGAAGTCTTCAGGAAACAGCTAGAGAAGGCAGAATATG
GAAATAAAGAAAGACTACAGCTATCATTGCTTGAAGTTATAAACAGGATCTTGTTCCGCA
GTTTGAAGTACCTCGGCCCGCTTCTAGAAACCTAGTGGGATCC

Table 1

Sequence 1586
CTACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTTATTTTTCT
CAAGAAATACGTTAAGTCCAACTGCTGAACATACATCTTGAATCTCTGTAGCTGTAGGAT
TTTCAACAGCCTTACTTATGGGGATTCGCCTTCCCTCTGCGATGGTCTTCTTATTATTTA
AATAAGCAGGATAGATACAAATAAACCTGTCCTGGTCGGCCCGCTCTAGAACTAGTGGGA
TCCCCCGGGCTGCAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGCTTGGCGTAATCA
TGGGTCATAGCTGTTTTCCTGTGTGGAAATTGTTATCCCGCTCACCAATTTCCANCACCA
ACCATTACCGAAGCCCGGGAAGCCATTAAAAGTGTAAAAGCCTGGGG
Sequence 1587
CCGCGGTGGCGGCCGAGGTACTTTTTTTGTTTGTTTTTTTTTTCACCTTAAGGGAGGATT
TAATTTGCTCCCAACTGATTGTCACTTAAATGAAAATTTAAAAATGAATAAAAAGACATA
CTTCTCAGCTGCAAGTATTATGGAGAATTGGGGCACCCACAGGAATGAAGAGAGAAAGCA
GCTCCCTAACTTCAAAAACCATTTTGGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGTTAATTGCGCCGCTTTGGCCGTAA
TCATGGTCATAGNCTGTTTTCCTGTGTGAAAATTGT
Sequence 1588
CCGCGGTGGCGGCCGAGGTACTGATTTCAAAACGTGGACGTTCGGCCAAGGGACCAAGGT
GGAGATCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCA
GTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGC
CAAAGTNCCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnCGCTTGGCCGTAATCATGGTCATAGCnnnnnnnnnnn
nnnnnnnnnnnnnnnCGCTCACAAATTCCACACCAACATTACGAGCCGGGGAGCATTAAA
GTGTAAAAGCCCTG
Sequence 1589
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCCGGGCAGGTACTATCTGTATCA
TTCTGCAAACCTTTTNGGNNAATTNNNNCCCCCCTCAACAATTTCTGGGGGATNCTNTTT
NCTGGTTAAATACATGTGG
Sequence 1590
AGGTACCTAATGAAACCCGTCTTTGGCCTGTGGCTGAGACGCCATCTGTAGGCGGTGAAA
TCTTTCCAGCCTATGTGACGAGGGTCATGCCACAGGGTGCGCACCTGAAGGAAAAGGAAA
AGGAAAGGTTGAAACACAGCTCCTTCAGGTGACAGAACAGATGTCCCATGGTGACCAAGG
ACCCCAGCCTCCATTGACTGTAAGAAGATGAACCACAGGCAACAATTAAGATCAACTTTC
AAATCCCTCCCTTGTCATAGACTCTCCTAAGCCCGTTCAAGAAACCTCTGCTTCTCTGAC
ACACGGAAAGAATGCTGGGGAAGAGGGTGAGTTTGTTTTTCATTAAAAGA
Sequence 1591
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACTTTTGGTCAGG
GGACCAAGCTGGAGATCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCAT
CTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATC
CCAGAGAGGCCAAAGTACCTCGGCCCGCTCTAGAACTAnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGTAATCATGGTCATAAGCTGTTTC
CTGTGTGNAAATTGTTATCCCGCTCACAATTCCACACCAACATTACCGAAGCCCGGGNAG
CATTAAAAGTGTAAAAGCCTGGGGGTGCCCTAATG
Sequence 1592
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACNTGCNCATCAATGT
ATGATGATGACTATTTGGCTTAAATGGGATACAATATTCGACCACGCTCAAGAACCTTNA

Table 1

GAAGCTTGACTGAAATTTCTAANACTGATATTTCTTACTGAAATGTGNCCTTTGGGTTTN
AANCTGAGGTTNCTATNGTTTGCTTNCNACAGACATATGTTTGACATACAAAATATGGTA
AAGATCCACTACTTNTGCAGAGGTATATTGGCCATATTATTCCCTTATNGGCCTGGATTN
CCTCATCAATAGCACAATTCATTCAAA
Sequence 1593
CCGGGCAGGTACTACAATGAGACAGTTGGATCCATTTTTCCAGGGTTAAGCCTGCAATAC
CTGAAGCTCCAGACCTGAAACCCAGAGCTCCTGCCAGCTGCTATGCCTGTGAACCTGTGG
AAGACCTGAAGTACCT
Sequence 1594
TCCTGTGTGAAATTGTTATTCCNGCTCACAAATTCCACACAAACATTACCGNAGCCCGGA
GGAGGCAATAAAAGNTGTTAAAAGCTCTGGGGGGTGCNCTAATTGAAGTTGAAGCCTAAA
CATCACCATTTAAATTTGCCGTTTTNCGACTTCACCTTGCCCNGCCTTTTTCNCAAGTTC
CCGTNGTAAAAACCCNTNNTTCCGTTGGCCCCAGGGCCNTTGCCAATTTTAAAATT
Sequence 1595
AGGTACCTCATTACTGCTCCCCATGTGGCCTCCTTACCCAGGAAAATTATGAAAGTCTGA
ACTCAGTCTCTTTNGACACCATCTCAACAGGAGGGGAAGGGGCACCTCATTATTGCCTGG
CAAGGGAGGAAGTCTAGGTTCCTCACTCAGTCTTTGCTGGTGACACAGGATTCTTTGGGA
GGCCACTTCACCAGGCTCCACCCATTCAGCCCAGCAGGCCGTGCTTGGTTTGCGCTACTG
GCCTGGATCCCATATCCTGGGTAAAATGGTGAAGGGTGTGTGTGCAAGTGGGTGTGAGGT
CTGACCACAGTGCACAGCCNGNCACACAGGCTGCTTGCAGTTGGGGCTGGGCAGGCAGCT
CCAGATGCCAGCACAGATGCCTCCTTCATGTTGAAAGCNTGCCNGCTGGACTAGGC
Sequence 1596
ATTGGAGCTCCACCGCGGTGGCNGGCCGANGTACAGCGGGGGGGCGGGGGGATAGCTGTC
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CCAAGTTCACGGCCAACTGCCTTGGCACTANGGTCCAANAATGGCTA
Sequence 1597
CCGGGCAGGTACTGGGCGCAGATGGGCGACCGTCACAACACTACGGTCCACTGGACATGT
CTGTTGCTGAGAGAACCACTGGGTGATGCAGGCGTTGCANAAAGCATGTTCACAATGAGG
TGCCTGGTAATCGTGAGCTTCTCCTCATACTTGCCCCAGGATGATACAACTGACTCTGGT
CTTGGCAAGGNTGAACCT
Sequence 1598
CCGGGCAGGTACGCGGGCTACAAGCATAAGGCATCATGCCTGGCTAATTTTTTTACATGT
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CCTCAAGTGGATCTTTCNTGNCACATNNCTTCCTAAAAAGNTGTCCANGGGATTTANCAT
TGCNATNAATGGCCAACCCAATTGCCCTTAANCCGATAANATGGTATTTTTATCAANTTT
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TTTTTGGAAAATAACCATATTNTANCTTTATAATTAAAAATGG
Sequence 1599
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AGTTGCCGATTAGTGATATGGGTCTGATTTCGATCTCTTCCTGATGTAAACCATGCTCAC
CCATATCCCACTATACAAATGCAAATGGTTGCCTGGTTCCATTTATGCAAGGGAGCCAGT
ACCTGCCCG
Sequence 1600
TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGAGGCCAGT
TATTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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Table 1

TGGATGCACCATAGATGAGGAGCCTGGGAGCCTGGCCAGGTTTCTGCTGGTACCTGCCCG

0

Sequence 1601
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GACTGGAAGNTCTGANAAAGTTCGACCCTNGATGGGCGAAAGCTTGAAAACAGCNNGNAA
ATATTGNAANATCAAACGGTNCCTGGTACCCTGCCCCNNGGCCGTGCCCGCTTTTTAANA
AAACCTTANNNNNGGNANTTCCCCCCNCNCGNGGNCTTTGNCCACTGNGAAANTTNCNNA
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NGNGGGGGGGGGNGCC
Sequence 1602
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GAGGCTTATGTGCACAAGAGTGTAATGGAAGAACTGAAGAGAATTATTGATGACAGTGAA
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GAGNCTTGAAATTGTAATTTGGGGGATGAAGCACATATCTTTTTACCCACCATCAAAAAA
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GGT
Sequence 1603
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Sequence 1604
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AGTTGTATTGTGAAGTACCTGCCCG
Sequence 1606
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ATAGCAGAAGCTGGGGTGGGCACAAATGCTTATACACAATATTACAAAAGACGACATTCA
CTGGCTTAGAGAAACTGATGAATTTTCATTACTTTTACATTTTTATAAGGCTAGCTAACT
TTAACAGTTAACTTTAGATAAATCTACTTACACAGTACCTGCCCG
Sequence 1607
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Table 1

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TTCATGCCCGTTTCGTGGCCTCCTACTTAGAATATGCCTTCCGGAAATGTGAACGGGAAA
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CCAGCATGAGGGACCATATTGATTACCGCTGCTGCCTGCCCCCAGCAACCCACCGTNCTC
ATCCCACCAGCATCTGTGACAACTTCTCGGCTTATGGCTGGTGCCCCCTGGGACCACAGT
GTCCTCAGTCTCACGATATTTGACCTTATCATTGACACTGATGAGGCTGCGGCAGAGGAC
AAGCGGCGACGG
Sequence 1608
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GCAGATACTTGCACGGTTTACAGAAATTCGGTCCCTGGGTCGTGTTC
Sequence 1609
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CGGCCCGCTTCTAGAAAACNTAGGTGGGAATCCCCCCCGGGGNCTGCAAGGGAAATTTCG
GATATTCAAAGCCTTTATTGGGATTACCCCGNTCCGAACCCTNNGGAAGGGGGGGGGGC
CCCCGGGGTACCCCCCAANGCTTTTTTTTNGTTTCCCCCCTTTTTAGGGTNGNANGGGGG
NTTTAA
Sequence 1610
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TTCCTCGCTT
Sequence 1611
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NCCNGCCCGGCCCCTTTNGNGNCCCGTTTAAAAAANCCAAATTGGGGGTCCCAAATTAAG
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Sequence 1612
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TTTTTCC
Sequence 1613
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NCGTTTCTTTGGAGTTTCCCAAAACCCCCCGGGTTAANAGGGAANCAACCGNAACTTTTT
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Sequence 1614
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ACCATTGATGGCAGGAACTACATTGTCGATGCTGGGTTTGGACCGCTCATACCAAGATGT
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Table 1

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Sequence 1615
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AAAAAAAAAAAAAGTACCTGCCCG
Sequence 1616
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CCAATTAAAAATAAGTTCATTAAAAGCACTTGAAATTATATATTTAACCTGAAAAAAAGT
TGCTAAAATTCCAATATAAATGTAAATATCTTTAACTTGCTTAACCCAGCTATCCCCAAA
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AAGAAGCTAAGCTTCCCTGAGCGCGTACCT
Sequence 1617
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TGTAGAGCAATTGAATTATTGGAAAAACTACAAAGGAGTGGAGAAGTACCT
Sequence 1618
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TCCAGTACCTGCCCG
Sequence 1619
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Sequence 1620
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CGGCCCGCTCTAGAACTAGTG
Sequence 1621
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AATCCTCACTATCATGCTAACATNTAACACTTGGATNGCATTTTGTGACGTGTAAAGNGT
TTCCNCCTNTCCCAGGATATTTTAATTT
Sequence 1622
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GGCAAGATATTGTGCTAATACATTTCATAGGATTTCTAGATGCTGGGCTATAACATCCAG
GTTGCAATTTGGTGACGGATTTTTTTATTTCTATTGCAAATGGACTACACTCCAAACACA
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Table 1

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CAATTTTNCANACTATCCATAACGAGNCCCNGGGTAGGCATTAAAAGGTGGTAANTGGCC
CTNGGGGGGTGCNCCTTAAATGTAGTTGGAGCNTAAACCTTCAAACAATTTAAATTTGGC
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AA
Sequence 1624
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GTCCTCAAAGCAAATCTTANNTTTAAACTTCTTNTNAGGCNAAACCTGTNTGGAACACAN
GTCNTTTTAATCCTTCAAGGGTTTATATAANNATANTAAAATAATNAAGTTACNCTGCTC
CGGGAGTCGGGTCTCGACTTCTAAGAAACCTANGATGNGAATCACCTCNCGGNGCTTGCC
AGTGGAATTTTCCGT
Sequence 1625
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Sequence 1626
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Sequence 1627
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TTAGGNTTCACNAAAATTGTNNTNTTTTGGGCCAAAAAAACCATGTTGGACCACNCTCAT
CCCATGGANTANATTTTGTACTTTAGATTCTCAAAGGAAAAAGA
Sequence 1628
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GTTCCAAACTTCAATGTTCAATGAAATTTTTGTTCAAGTTTGAAATGGAGAGAGCAGCTT
TAAAAGGTACCTGCCCG
Sequence 1629
TCTAAAGGAATAAGCTTGCGGCCGCTTAATTAATTTTTAGGCACATGTAGGGTGATCCAA
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Table 1

TTTTGACTTTAGGTTTCTTGAAGGAAGGGACCAAGCCTGCTTTTTGTCATCATTATATCC
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GCCACCNTTTGTNTTTGTCAAAAAATATGAATTGTGGTTGGGGAATTGGAAAGGGGGGAA
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Sequence 1630
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ACCCTTAGCCCC
Sequence 1631
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TAACCATGTAGCATCTNTGTGCCTGACCAGCCCTGACAGATGAG
Sequence 1632
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TTTCNAAAAAGATAAAATTTTTTGNCNAAGGGTTTTGGGAACCNTTACCAAAAAAGGGG
Sequence 1633
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ATGCTCTTCTG
Sequence 1634
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Sequence 1635
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Sequence 1636
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Table 1

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TTTTTTAATTTCCCCCACCCCCGGAAANAAAAAAA
Sequence 1637
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GAAATNCNCCTTGGAACC
Sequence 1638
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Sequence 1639
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GGCTACACATCAAAAAGAAATAGATAAAATNAATGGAAAATTAGAAGAGTCTCCTGATAA
TGATAGTTTTCTGAAGGCTCCCTGCAGAATGAAAGTTTC
Sequence 1640
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TGGCTCCCAGA
Sequence 1641
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CTTCGTTGCCGCCTTCTTCCCTTGGTTTCCCGAACCCCTTGGCCCGGCCTTTAACCCGGG
AATTACCCCTTTGGTCCCCCGCNCCTTTTTCNTTC
Sequence 1642
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CCNANCCCGGGAAGCCATTAAAAGTTGNTAAAAGCCCTGG
Sequence 1643
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Table 1

TTCTATCCCAGAGAGGCCAAAGTACCTGCCCG
Sequence 1644
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CTGGAGCCTGAAGCAGAGTGTAAGGAACGGCCAGAGAGCGCAACACTGGGGCCCACTACC
CCGGCGCAGTGACCCGCCGCGCCCCCGCGTACCTTGCCCGnnnnnnnnnnnnnnnnnnnn
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GGGGGGGGGCCCCGGTACCCAAGCTTTTTTGNT
Sequence 1645
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CAAGAGTTTGTTTGGAGGCCGGAGTGAGCTTGACAGAACTAGATGAAATTGGCCACTGGG
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TCAGAATCCTTTCTATGGTGCATCCAATTGGCTATGACTCTCCTAAGAACAGCGCTGCAG
GAAAATGCAAGTTCACAGGATAATGAATGCACTGTTGCTTCTCT
Sequence 1646
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AATCAGCTCCCCAAAGCAGAAGTCATAAAATCTGTTTTCCAGCCAGGGTGTGGAAACCTG
GGCCCCTGGTATCAGGTCCACCCATGTGCAAGCTATGGCATTTGTGCCCAGTGGCAACAC
AAAGCGATCTTCACCAGAACATTCCTCTCCTGAGGTTTCAGCACTGCTCTTGGCTACGTA
GCCACCGCTAAGCTTCTCTCTCTGGCCTTCCTAGGAA
Sequence 1647
TACTCACTATAGGGCGAATTGGTAGCTCCACCTGCGGTGGCGGCCGAGGTACACGGGGAC
CTCANAGCTGAGCTGGGCATGAGNAGATGCTCAGTAAGTGGTAGCACAGGGTTGGTCCCT
ACGGTGGAGGCCCCCTAACACCG
Sequence 1648
CCGGGCAGGTACCAAAAGAATGTTCATANGCAGCATTATTTGTCATAGTCAAGAGCTGGA
AGCAACCCAGTTGTGCATCAATGGTAGAATGGATGACTAAATTGTAGTGTATTCTTACAA
TAAAATACTATAGAGCAATGAAAATAAATAAACTATGGCTATNTGCAACAACATGGATAA
ATCTTACCAACAATGTTAGACAAATGTAGCCAAACCAAAAAATACACATGTTCTATGAAT
CCATATATGCAAGGTTCACAATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAA
AGGACTGAGAGAGTATTGCAGAGGGGGCTCCGGGTGTTTGTAATTTCTATTTCCCAGTGC
AGGTGTGGTTTGCATGANCATGTTCACTTTGTGGAAATTCATTGAGCTGTAA
Sequence 1649
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AACCTCACACAGTAAGCATTATTAACAACAGCACTTTACAAATAGAAATTTGTTGAGGCT
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AAAGCTTTGCTTTCCTGCTGCTGGATGTCTTTTTGCGTCATCTTCGCATATTTAACCTCC
TTNGGCTCAACTGGGGAACC
Sequence 1650
CCGCGGTGGCGGCCGAGGTACTGGGGCCTTACTTCCCTAAAGACCCAGGGAGGGGAGAGA
AAGTGCTCTGCTTGTATCCTAAGCACAAATGCAATACAGCAACATCAGTAATGGTAACTG
AGTGCTTACTGCATGCCAGACCCGTGCTAAGCTCTCTCCATGCACTATCTTAATGTTCAC
AACCTCACACAGTAAGCATTATTAACAACAGCACTTTACAAATAGAAATTTGTTGAGGCT
CAGAGTTGCCATAGCTGGTGAGCATCCACAGCCTACATTCAAACCCAAGTTTCATTCCAA
AGCTTTGCTTTCCTGCTGCTGTATGTCTTTTGCGTCATCTTCGCATATTTAACCTCCTTG

Table 1

GCTCAACTGGGAACTCTTTGAAGGCTAGGGCCATCAATTACATTTTTTGTTTCTTCCA
Sequence 1651
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ACAGATGTGGAGGAGGCAGGTCTGGACTTCAGGCAGACAAGGAACTTCAGAAAATCCTGG
GGAGAGACAGCACANGGTAAGAGGNTAGGTCAGNAGAAANTCTNAAGGCTCCCTTTTTTC
AACTTTAGNCACTGTACCATGCCCCGGGGCGGGCNCGTNTCTAGTAACCTAAGTGGGAAT
CCCCCGGGCTTGCAAGGNAANTTCNGATTATTCAAAGCNTTATCTGTATTACCCGTTCGT
ACACTTACNAAGGGGGGGGTGCCCCTGGNTACCCNCAANCCTTTNTTGTTTTCNCCCTTN
TTAGATGGAGGGGGTTTAAATTTTGNCTGCNGGCCTTTGGGTCCGTTAAAATTNCAAATG
NGGTTNCAATTAAGCCTTGGTTTTTCCACTTGNTGGTTGGAAAAA
Sequence 1652
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TATCCATGAAGGGAAAGCTCCTCAGCATAACTGCTCAGGGAAATAGGGCTAAATAACTGA
ACATTAAATAATTGGTTAAAGGTGCTGTTAGCCGAGCCTCAATGCTTGCTACAAGGATGT
ATGTACCT
Sequence 1653
CCGGGCAGGTACGGGGGTCTGCTTAAAACTCTTCAGAGGTTCACCATCGCTTCCAGAAAA
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TGTTTACCCCTCTATCCATTACACTACGATCCAGCTGGGTTTAGGCATCACTTCCTCTGA
GCAATCCTCCCTGATGTCATGAGGCAGTGCTGAGTGCCTTCTCTGGACCCTCTGTTTACT
TGCCTGTTAAATCCTGAACATCTGGAAGGGAGTCGTGTTCAGCAACATATCTACGCCTTG
CAGCACGGTGCCTGGCCTGCAGCTGGTGTTCCGTAAACAGCTGCTGACT
Sequence 1654
AGGTACGCGGGAGTAAATGCAGTACAAATTGTTCTACTGTTTTAAAAAGTTTTCCGCAGA
ACAGTGCATTTATGGCAATGCTATGTTTAATGAGTTAGGGACATCAAATATATAGTAGTT
CCTTATTTTCAGTTGTGAAAATGAAATGGCTAAAGCAGAAGAGACGTCTATTTTAGTCTT
TTAAAAATGTGTGTGGGTGGTCTTTTTTCCTCAGAAGCCCAAAGCACATGTATATTTTGT
TATTTCTCCTTGCTATATTCCTGAGACTATACTAAAAACTTTAAGAAAAGGAACAAGAAA
AAGGTAAATTCATGTGTTCCCCACTGCTGTGTCTAGAACCAAGATCACATTA
Sequence 1655
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ATGTACCT
Sequence 1656
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ATAGTTTCTTTATAATCTTTTGAGTAGTGAAATGGTTACTTTTACAATGGTTATGAACTG
GGTCAAGGCAAAAGGGCCACTATATGTCTTCAGTCATCTTTCTATGCCTGAAATCCAGGA
AACAGTGAAAATGGATGTTCCCTGGAACAGCCATTGCGATGCCATATGTTGGTCATTGGT
GTCCTTAAAGTGTATCTCAGATAATTGTGTGTCTCCCT
Sequence 1657
TNACCGCGGNGGCGGCCGAGGTACAATTGATATAACAGCTTTGTTGCCACCCCAGGCTTT
TCTGTGATGATGCCATGGGCCACATTCTGATCAAACTGCACACCCAGAAGGTGAAGTGTT
GGCTCCAAGCGAGAAAAATTATTAAGTTTGGCACTTGAAACCCTGCTGTCCAAAAATTCT
GAAAAATCATCCTGAAGTTCAAACTTGTGTAGAACTTCTCCAAGTAGATAGCCACTGGAA
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Table 1

CACTGGCACAGGGATCTCCGACATGGTTCAGCCCGGTGCCTCATACCGCANGCGGGGGCT
TAGAAA
Sequence 1658
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CAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAGAGGGTCTTC
TACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTTACTCATT
CACACGTTAATGGAAGAGAAGGAAGTTTCCTAGAAAAATCCTCCCGCTCCACCCTGCAAA
CTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAAACTATTTTGAATTGGT
GGTGTTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTCAGAGTA
GCATGCTACAAATTTTGTCCCAATTTCAATGGGGAGAA
Sequence 1659
CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTCCCTNTGGTNGTNGCTCAGGAAGCTTTANA
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CTTGTTGAGAAAGAAATCATAAGTCCCCTGACTTAAACTCTCTCAATTGATGAAGTGACC
AGGATTACTCAGAGTGCAGTTATTGGCACCCCCGAAGCACCAGAGTCCAGGAAAGATGCT
TATCAATCTTTTGCCATTGGCTTCTACTTGCAGGTGCCTTCTCTACTATTCAATCATATA
CGATCATTGGAAAGACAAATGAACTCAAGAAAAGCAGCGAAACAGTACCTCGGCCGCTCT
AGAACTAGGTGGGATCCCCCCGG
Sequence 1660
CCGCGGTGGCGGCCGAGGTNCCCGGGGGATGCTGCCACCTAGGTTACTTGTAGGACCCTA
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AAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTTTGGGAGG
TGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACC
Sequence 1661
AGGTACAGTTACAACTGACTTGCATAACACTAAAGAAAACATTGTAATTCCTACGCCAGT
AGTGGGGGTAAACTGAGAACCAACCTAATTTTCACCACAGGGCCCTCTGGAAATAGAGGA
ACTAAAATGATGACTGTTTGAAAGTGAAGAGGCAGATTCCTAGAACATCACTCCTACTGC
ATTCCTTACCTCCACTCCATACCCTTTCCTTCTTCACTCAGGTAGGACTGTCTCTGGGAA
TGCATGGACAGCATGCCACAGTTCAGNAGCTTGGGATGTGATCCTGGGAAATGGGGCCTT
AAGATGACCCTTTATGGAAACACCTGGAAT
Sequence 1662
CTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCAGGGTCAGGTCCGTCATCGCCA
CCCCAAGCCCGCGGGCGGCGGCATCCAGTGCCAGTTCGTCGAGGTTGAACGGGATATGCC
GGTAGTCGTCCAGCGACCGCGCACCATTGGCCGCCAGCCAGGTCATCCAGTCTTGCTTGT

0

Sequence 1663
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AACAGGATTGCAGCAGATAGAGACAGGTAGAAGGAGAGAGATTCCAAGTGGAAGGATAAA
GGAGAGGGAAGAGAAGCAAAGAGTGCAACTTCCAAGAAGATTTTCTGGTTTCTGGCACTG
GTCATAGATAGCTTGGGAGGAAACAGGCAGAGAGGGTTTTGGAGAAACAGAGCTGCAAAG
CCAAGTTAGATGTTAGGTGAGTTGAAAAAATAACTTAGGGCAAAAGCAGAGGGAGGGAGG
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GCCANGAGCATGAAGCAAGCTAGGAATTG
Sequence 1664
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TTGACATGCGATCTTGTCTCTCTCTTTTATAAAGTGCTTCCAGGCCCTTTTGATTAGGAT

Table 1

GCTGTCCTAAATCCTTCCTCCCGCGTACCTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnCTTTATCGATACCCGTCGACCCTCGAGGGGGGGGCC
CCCGGTACCCCAGNCTTTTTGTTTCCCTTTTAAGTGAAGGGGTTAAAATTGCCGCCGCTT
GGGCCGTAAATCAATGGGTCATAAG
Sequence 1665
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ATGGGTCAATTATATTAAAAAGTAGATTAATTAATGTCCATATATACATTTTTTGGTGGA
AATCAAACATAATGAAAACTATTTCACATAATTAATATTTTGTTTATTTTTTACTTATTA
ATTTATTGCAGAGATGGGAGTCTTGCTAGGTTGCCCAGGCTAGTCTCAAACTCCTGGCCT
CAAGTAATCCTCCCACCTCAATCCCCCAAAATGCTGGGGGATTTCAGGGAACATGCCCAC
TGGCACTTTATTAGGTGTTACCCTGGTNCATAAAAGGTTTAAATTACCTCATTAATTTTT
ATTTTTCAGGTATATTATATTATACCAC
Sequence 1666
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CTTGCCCGNTTTTACCGGGAAANACCCCTGTTCCCGCCCTTTTTTTTTCCCCTTTTCCGG
GGGA
Sequence 1667
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TTATCCTGGATATCCAAAGGTTTGTGGTCCATCTTTAGGCTTCCGTTTGTTCTTTGGTAC
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GCTTTTT
Sequence 1668
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CAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCA
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CCACCTTTCTTCCCTGCCCATTGTGGAGGGAAGCCCAAGNAAAGCCCGGC
Sequence 1669
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ATTACCGAAG
Sequence 1670
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TTTATAGCTCTGAGTCCATGGACCACCACTTAGCCATCCCTACCATCAGTTTTTTGTAAA
GAGCTATGTCAGGAATGTGGAAGGATTCAAGAGAGGGCTTTTAAAGTGTCCATCACGACC
TTTAACCCAAGGGGAATTAATGCAGGAACAGAAAACCCAAATACCACATGGTTCTCACTT
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CCAATTAGGACCCTACCTATTTGTAGGG

Table 1

Sequence 1671
GCGTTGGCGCTCACCTGCCCGCTTTCCAGTGCGGGGAAACCTGGTCGTGCCCAGCCTGCA
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GCCGCCTCTTCCCGC
Sequence 1672
CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGCTGAAAGATTAT
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GCCATTCTTCACACCTGCAATGAACAGGTGTTTATCTGCAGTTCTGACTTATCTCTTGAA
CTCCATTTGCATGTTATAGTGGGATGCAGCTGATGCCCTGTCCAGATCTTCTTCAGGCCA
CTACATCTATATATGCATTCATATTCCAGTGGCTGTGAAGTGTTGGGCTGTTGGTTGACA
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TGGGTCCTTGGGAGGGTGAAAGCATCTTTCCAAAATGGACAGGCCTGGCAGGTCAATGGA
CTGGAT
Sequence 1673
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TTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACA
TTTC
Sequence 1674
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TTAATAGAAAGCCAATTCTAAATTAATGTAGGTAATACATAATCTACTCAACTGGATGAA
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AAAAAA
Sequence 1675
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AAGACAGTTCCAAAGTCAATTTCACTCTGACACACTCTCTGTGATCTTCCACAGTCAGCA
CAATGCCTGCCCCCTGCTAGGCCTGATGGATGATCTGATAGAAAACTGGCTTCAGC
Sequence 1676
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TCCTGGTCACTTCATCAATTGAGAGAGTTTAAGTCAGGGGACTTATGATTTCTTTCTCAA
CAAGACCAGGTGAACGTGTTTTTGCAGTTCTAAGTATTATTTGCAAATTAAATAGCCATA
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CTAG
Sequence 1677
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TCTTGCTGTATAACCAAGGGCCAGAGTATCACTACCTCCACCAGATGTTGGGGCTAGGAT
TGTGTCTAAGCAGAGCCTCAGCATCTGTTCTTAACCTCAACTGCAGCCTTATCCTTTTAC
CCATGTGCCCGAACACTCTTGGCTTACCTCCGAGGGATCACAGNAAGGTTCCAAGCAGGG
AGAACCAGGGAGATTGTTGGATAAAAGCAGA
Sequence 1678

Table 1

CTACTTAGGGCAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGTAGGGGCC
CTTTGCTGCAAGCTTAGGCCAGTGTCAGCTCCTGAGCCACTCCTGACTCAGTTGGAGGAG
ACTCAGTGTCCTCTGCCCCCTGCCTGGTGGAGCTTGGCAGCAAGTCCCAAGTTTTACAGT
GTTGAGACCAAGTGGGCAGCCATCACCATTGAGGGGTGCCCTTTTGCTCCCCCTCGAGTC
CAAGTTATAGTATTGCTTACTTCCTACCTGAAATAGTTTATGGGTCATGGGTCTGGCTTA
CATCAAGCCCCATAGCCAGTCTGGTTGCCCCACCTAAGGTCTTGGTGCTCTTTGATAATA
GCCACAGCTAAATGTATTAGTCCTGTCCTAGGGAAATGCATTGATCTTCTNCCCAAAAAT
ATATA

Sequence 1679

TTCTCTTACTGATAGTAGGATATTTCTGCTTTAGTTATTGTCACCTTAAATATATTTTCA
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TTCTGTCACGTTGGCATGATAACAAATGCAATAACCCAAAAGACCCCAAAAGCTAGTGTA
ATCCCTTTTGCAATCCAAGCATGAGGATTCATCTTCATGTTGACAGTGCGTGAATGTTCG
GTAGGCTTTGTCAAGCTTGCATACAATAAATTATATATGTCCCTTTTCTTTTAGGGTC

Sequence 1680

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTACAGGGGACCGCCAGGGGCCTCGAGAATCG
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CTTAATTTGAAAACTGTGGGCAGAAACAGAAGCCCGAGACTAATTTTTCCATTGCTAACT
CTAGATTCTCGGCCACTGGAGTCTGAAGATACTCTCTTTGAGAATGCATATTATTTTGCT
CACAGCTAAAACATTTAAGTATCATAGCTGATCAGTGGAGTGAGATTAAAAAGGTTTCTT
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Sequence 1681

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ATGGGAGGGATGCTAAGGAGACTGTTTAAATTTTTAAAAAGTTCTCTCTATGCCTGATAC
AGATGCAAATTGCTTGCTCATTACATTCTTTCAGCCTTTTTAAACAAGTTTGCTAAAACA
ATCATTCTCTGGCATTAAGACAGCTTACCTGCCAAGCTTGGACATTTTCTATAACCCAA

Sequence 1682

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGATTTTAAG
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AGAATGTGCCTGCAGTGTGAGGGAATGCCGTCTCTTTTCTCTTTTCCCATTTTCCATTCA
CCCTTTAAAAAGGCAAAGCACACCTCTTCCTCATCCTGAGTCTATTCTGGCATATCACCT
TGTGGTGTAAAAACCTCCAGGCACCAAACAAAGGGACACTTTGAAAATATTAGTGTCATA
AACTTGTGATAGGGCTCCAAATCTTTCCTTGCTGTTATATATGTATTTCTGTTAAGGAAA
GAAGTGGGATAGAAATACAAAGTTGAGGAGAAAAAGGAAGGGATGTAAAGCTTTCTGGAT
TGTCT

Sequence 1683

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGCTCTTGATA
TATCCTGGCCTTAAGTCTCAGGTTCTCCAACAAAGCTGGCAGCCTGTGGTATGCCTTCTG
GGGCCAGAGAGTGTGGCATGATCCGAGGTCCTGAGTCTCTCTCTCAATGAGCCCATCATA
TTGGCTTAACCAAAGCCAGTGGTCTTCAGGA

Sequence 1684

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGATGAAGAGGC
AAGAAAATTATGCCAAATTACCCTGTTTCCCTTTGTCACACTGCCTCCTCGCTGACACCT
TCATTCTCCTGCAACCTTACACTTTGATGATGACTTGCTCTGCTTCCATGGAACTACTTC
ACTTGGCCTATGGCACAAGGCACTTCCTTCCGGCAACATTCGCACCTTGGGAGGGGGCTA
TTTTTGCATGCACCTAGTCCATTGCAATCCATTTGTTCTTGAAGGGCAAGATAGAAACTT
TGTTTTATTATCTACACTCACGAAAAACAAATTTTGTGCACCATTCCCAACACTATTCTT

Table 1

TTTTCTTTTTTTATTTTAGTAAAAGG
Sequence 1685
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GAACTTTCTTCTTCCCANCCCCTAAGCCTTTCCCCAAGAAACCAATTCACCATTAATCAA
CTTGCCAAAAAAAATTAAGGCCAATTTGCCANTAACCATTGGGNNATTCCAAGGGCCCCC
AGGTTGGGGAAAAAATTGGTTAAAAAGGAAAANGGCCCCCTTGGNAANGCCTTNNATTGG
GGGGGGTTCCAAAAAATTGAAAAGGGGTTGGAAATTTTCCAAANANGGCCTTGGANAANGG
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AAGGGAATTGGGGTTTTNGCCAACCCGGAAAAAACCAACCAACNTTTGGGGGGGGGAAAA
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NAAAACCAACCCTCCCAAAAGGGGGCCTTTGGNTNGGAAAGNAACCCTTAACCCCCTTAA
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TTGGGGGGAANCCGGTTTTTGGGGCCCCCCCTTNGTTTTTTTGGCCTTTTTTTTTTAATT
TAAAA
Sequence 1686
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ACAACCGGAACCTTTAATTCCGGCCCCACCTTGGGGNCNAGGCNAAGGCCCCAAACTTGG
GGNTAAAACCAAGGGGAATTTAAGNCAAGTANNCCGGAAGGGGTTAANTGGTTNAGGGGC
CCGGGTTNGNCTTANCAANGAAAGTTTTCCTTTGGA
Sequence 1687
ATTGGAGCTCCACCGCGGTGGCAAAGCAGACTTTTTATTTTAACAAGGAAAGTCATAAAG
TGAATTTTTTCATGAAAGAAATAGTCTTCATTTAAGAAAGTGTTGCCGTTAAAGGGTTAT
CTTGGCACTAATGATTGGCTTTGGGTGATTTTAATTCTGAGATGTCTGTCATAAAGGAAA
TTATGAGACCATAAAATTGAGCTTCTAATTTTCTGTAAGAATACAGAGGAGAAGGAAGGT
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TTTGAAATGGACAGTTGGAATCAATCAACAATATTTCTTGGGGGTGCATTTCCACTGGAT
GC
Sequence 1688
TGAATCTGCATTTCTTGGATGAGATAGTTAATAACAAACTATTTCTCAATATTTGTATAC
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GGGACTGCTATAAAAAAATTACCATAGACCATTGACTAAACCACAAACATATACTTCTCA
CAGTTCTGGAAGTTGGAAAGCCAAGATGAGGATGCCAGTATGGCTAGCTTCTAGTGAGGG
GTCCTCTTGCAGGTTGCAGACAGCCGGCTTCTTGGCTCCTCACATGGCAGGAAGAAGGTG
CCGCAAGCCTCTCTGGCCTCTTCTTACCAAGGGGCATTAATTACCTTC
Sequence 1689
GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCATGGATAAT
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AGGAGTTCGTAAACTATACTTTCTCCTTTCCAGACTATCCTAGTAAGAAAATTCTCTTTT
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Table 1

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TTCTTCCACTTCTTGCACTTTATATTG
Sequence 1690
GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATATAGGCAGACAGGTTTGCCTTCA
GAAATTCAGAAATGCAGCTTTTGAGGGAGGTCAGCATCATTGGTCTCAGCTACCATTTTC
CTGCAGGATGTTTATAAATAGTTCCTGGCAAAGGAGGTTGCCCGTATAGGGTCCTACAAG
TAACCTAGGTGGCCCCGCGTACCTGCCCG
Sequence 1691
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GCNTGCGCCTCGATTCAATTCGGGCNTGATGGCAGAAGCCGGCTATNCAGCNTCACCTTC
ANAAGGGGCGGNTAAATTACCGGGTNTTATTCCCACCAAGGAAATTCAGNGGGGNATNAA
ACCCCCAGGGGAAAAGTAACCATTGGTGGAGTCCAATAAAAGGGCNCACNCCAAAAATAG
GGGCCCATGTNNAANACCCCGGGGNAATAAAAAAGNGGCCCCGGCCNGTTNTNGGCCTTG
GGGGCCGGTTTTTTTTTT
Sequence 1692
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACATGATGAAGAG
GCAAGAAAATTATGCCAAATTACCCTGTTTCCCTTTGTCACACTGCCTCCTCGCTGACAC
CTTCATTCTCCTGCAACCTTACACTTTGATGATGACTTGCTCTGCTTCCATGGAACTACT
TCACTTGGCCTATGGCACAAGGCACTTCCTTCCGGCAACATTCGCACCTTGGGAGGGGGC
TATTTTTGCATGCACCTAGTCCATTGCAATCCATTTGTTCTTGAAGGGCAAGATAGAAAC
TTTGTTTTATTATCTACACTCACGAAAAACAAATTTTGTGCACCATTCCCAACACNATTC
TTTTTTCTTTTTTTTATTTTAGTNAAGGNGGAGAAAGCTTTT
Sequence 1693
GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT
TGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAGGGCCTTAGGATCTACTGGGGG
AGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATG
Sequence 1694
CGGCCGCCCGGGCAGGTACAAGGGAGACAGCATGCAGGGTGTGTTCAGAAGAGCTTGCTG
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TGCTTTCCAAATCCTAGTCACTTGGATGGGAGGAAAGTAAGAACAGATTCTTCCAACCAC
TACTGATTTGTTATAATTCTCCCCATTGAAATTGGGACAAAATTTGTAACATGCTACTCT
GAAATTGATCACATTCTCAATTCTGTCAATAGCAGAGAATTTAGCCTCAACACCACCAAT
TCAAAATAGTTTAGGTCTTGCCCCTGCCTGATTATGTAACAGAAAAGCAT
Sequence 1695
GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
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ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTCCATCATGCTGAGT
TGTGTGCAGCTGCAGCGGATTCCCTCTGAGCGCTTGTCTATCGCATCTGCCTGGGCAAGT
TCACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTANGATCTACTGGG
GGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTTGAA
Sequence 1696
CCGGGCAGGTACGCGGGACAGTTCTCTTTCCTCCACTAGACTGAGCTCTTCAGAGGAAGA
CTCACTTGGCTGAAACCATGATTTTACTTTAAACACATTGAAAACCTCTACTGGAGTGCA
TTGTGTCTGGTGGGCTTCAACCTTAATTCTTAAGTATGTGAAAACACATCACCTATCTGG
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Table 1

CTTAAAACTTGTCTTCATTTCCTTTAGGTCTGGCCCTCATGCATGCATATAATTTATAGA
GTCACTGTTTTGCTCGGTTGTCCTCATGCCTCTATATTATTGGGAGGTT
Sequence 1697
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CAGGCTGGAGTGCAGTGGTGTGATTTTGGCCTACTGCAACCTCCGTCTCCTGAGTTCAAG
CAATTCTCCTGCCTCAGGCTCCCAAATAGCTGGGATTACAGGTGGGCACAACTACACCCA
GCTAATTTTTGTATCCTTAGTAGAGACGAGGTTATACCATGTTGGTCAGGCTGGTCTCAA
ACTCCTGATCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAATGCTGGGATTACAGGTGT
GAGCCACCATGGCCAGCCGGTTGTTTACTTTTGATAAAGGATAGCCAATGTAGGATTAAA
GAGGATTCCAATCGCAGTCCCCAGGTTGGGAGTTTATCCATCAATAAAGCAAATTACGAT
AACTCATAGTGATAAATATTAAACCCAAGCAACAGGAAAATATTTTATTTTCCAGTGTTT
CATTGGGCTTCTGAATCATTCTGGACACATGTATATTTCCCTGTCTATATTAAGTAGNAT
GTTATTTTCTCACTTTAAAATTATCCCGTTAATTTTTGGATTTATTTGNTATTTTGGA
Sequence 1698
CCGCGGTGGCGGCCGTAGCTTGCAGGGGTGCTATGTGAAGATGGCGGAATTCCCAACGTG
CTTCTGCAAAATTTTATGTATTCATCCCCCTCTGCTCTCAGTAGGGTGTTACCACCTGCG
GATCCTTTGCTTTCCCCGCTGGATACTAACAGCCTTTTTCATAATTGCTAGCACCTATGG
AATTGAGTGTTGAACTGAACAAACAATAGTCTTTCTCTGTAATGTCAGAGTTATTTATAA
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CCAAGTCTTATAAGGAATTTGAAGGCTTCTGGGATCTAATCTAGGTCATGCCCATTCTGC
CTTCCCTTGCTGTGTGCCCCTGACACAAGCATGGAAACATGTATTCACTTACCTTTGCCC
TTGGGAACACTTTGGTGGGGAAAAATGTTGATATAGGTTAGCATTTTTATAAACTGTCAA
GTTGTACCT
Sequence 1699
TCTGAGAACTTGGGCTGCGCAGGGAATGCTGGTGTGGGAGAAGCAAGCCAACTGAGCTGA
GCTGCGGCCCTGTTTGTCCTTAGCTCTCCAAAACTTGCTGTCTATGTCACTTGGAAGGAA
TCTGATTCTTTTCTGCAAGGCACTGACAATACCTTACAACAGAGCTGGGAGATAAAATGC
AGAGCTTGTGAAAGTCATCAGAAAGTTGAACACAGATGGTCCCCGGCTTCCCGCGTACCT

0

Sequence 1700
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ATTTGTGTATCTTCTTTTGAGAATTGTCTATTCATATCCTTAGCTCACTTTTGATGAAAT
TGTTTTTTTCTTTCTAGTTTGTTTGAGTTCATTGTAGATTTTGGATATTAGTCCTGTCAG
ATGCATAGGTTGTGAAGATTTATATCAAAAGTGTAGAGCCTGAGTTTGGTCATGAGGAAA
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GGCAGAGTAGAGATATTCCACAGAGCTCATTGGACATTCAGTTTAGACCTCAGAAAGGGC
ATACTGTAGGAAGTAAGGCCACATTCTAATGTAAAGAACTTAACCCTTTGACCAGTGGAC
AAAAATTGAAACCAGACCTTATAGAGCAAATGGATAAAATCAACCCGGGTGAA
Sequence 1701
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TAGAGATATATGGNTATTTAATTTGCAAATAATACTTACAACTGCAAAAACACGTTCACC
TGGTCTTGTTGAGAAAGAAATCATANGTCCCCTGACTTAAACTCTCTCAATTGATGAAGT
GACCAGGATTACTCATAGTGCAGTTATTGGCACCCCCGAAGCACCAGAGTCCAGGAAAGA
TGCTTATCNATCTTTTGCCATTGGCTTCTACTTGCANGTGCCTTCTCTACTATTCAATCA
TATACGATCATTGGAAAGACAAATGAACTCAAGAAAAGCAGCGAACAGTACCTNGGCCGC

Table 1

TCTANAACTAGTGGATCCC
Sequence 1702
NAGGATACCAGGCGTTTTCCCCCTTGGAAGCTCCCTCGTGGCGCATCTCCTGTTCCGACC
CTGCACGCTTACCCGGGATTACNCTGTNCCGCACTTTCTTCCCATTACGGGGTAAAGCCG
ATGGGCCGCTNTTCTCAATAAGTCNTCACCGCCTNGTAAGNGGTANTNCTTCAANGTTTC
NGGNTGGTAAAGGGTTCCGGTTACGGCCTTCCCAAAGACCTGGGGGCCTTGTTGGTTGGC
CACCGAAACCCCCCCCCCCGTTTTCAANACNCCCGNAACCCGGCTTGNCCGGCCCCTTTA
ATTCCCNGGGTTTAAACCTTAATTTTCGGGTCCTTTTGGAAGGTTCCCCAAACCCCCCGG

Sequence 1703
CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTCACTGCGTA
TTTAGAAGTTCTTGGGGCACTGTGTAAGTGTAGGAGAAGATAGATGGAGTATCTAATTAA
TCTAAAGATAAAAATGAATGAGGTAGAATCCATTCAGTAGACTAATAAATAGTTCTTAAG
ATCTATAGGATTTCTCTTTTGGAGTGTGGAGACATAGTGTGGAGACATTTGCTAATGTAG
CCATAAAGATAGACCTATTGTCCATTGCAATGAAAGCAACAAATACTATAACATAAAATA
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TGCATTTTTAGAAGTTCACAAAAGTCTGTAAAATATGCACACAAATGTCCATCAATTGTA
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TATGCCTCAAGAAATTATCTAAATCTAAGGNGTTAGCAAAATAGTGCTTACATGTATTTT
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CTTTACTGAAAAAAAAAATCTTTCACATTCTCTATTTAGAAAAAGTAAATATCTTAAAGG
GAATGGCTCANCTGGTNAATTTCTACNGAGGGTTAAAAGGAAGGAAAGAAAAAAA
Sequence 1704
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ACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCA
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CATAACCCAGGCAGAAGTACCTCGGCCGCTCTAAANCTAGNGGGAATCCCCCGGCCCTGN
GGNAATTTCNATNNANGCTTTTTANTNANNCCCNNCAAACCTTNTNNGGGGGGGGGCCC
Sequence 1705
CCGGGCAGGTACAAGCTATCAAAGGCGGCAATTTTCTCCTGCAAGACTACGACAAGGATC
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CCAGTACTCTGCGTTGTTACCACTGCTTCCCGCGAACTCTGCGTTGTTACCACTGCTTCC
CGCGAACTCTGCGTTGTTACCACTGCTTCCCGCGAACTCTGCGTTGTTACCACTGCTTCC
CGCGAACTCTGCGTTGTTACCACTGCTTCCCGCGAACTCTGCGTTGTTACCACTGCTTCC
CGCGTACCT
Sequence 1706
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GATTTCTTCCTTCTATAAGAATATTGATTCTTGCAAATAAGATGAACCTAAATGTGGTCC
AGGAGTCAGCATCTTCTACATGGTACCT
Sequence 1707
GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTCGCTGCTTTTCTTGAGTTCATT
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ATGGCAAAAGATTGATAAGCATCTTTCCTGGACTCTGGTGCTTCGGGGGTGCCAATAACT
GCACTCTGAGTAATCCTGGTCACTTCATCAATTGAGAGAGTTTAAGTCAGGGGACTTATG
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Table 1

TTAAATAGCCATATATCTCTAAAGCTTCCTGAGCAACAACCAGAGGTACCTGCCCG
Sequence 1708
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CACCGTCAATCACAGAATTGGTTGGATAGTTTGCTTTCTTGCTAATTTTGCCTTCTTTCA
CTTGTTCTCTATAAATTGTCCAGACTATCAGATAAAATCCAAATGTTTCATCCTTTGCAA
CTGCTCATATACTGTCTAACTTAGTGAAACAAACTGCTTTCATTGTTATTTGTTCTTCAG
AATACTACCTCCTAAGTAAATGGTACCT
Sequence 1709
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTTCCTCCAGTG
CCCAGAGATGCTCTCCGCACCAAGCCACAGATGTGGAGGAGGCAGATGGCCTGTGAAAAC
TGAAGGCAATTTGGAAGGCATTTTTAAATTCCGTGGAGCCACTGGAGAAATGTTTACAGG
AATGATGCCTTAAAATTCCTCAGTGGTAAGATCTGAGTACCTGCCCG
Sequence 1710
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAGAACTTAAA
GTATAATAATAAAAAATAAAGTATTACAGAACATGGTCAATTATATTAAAAAGTAGATTA
ATTAATGTCCATATATACATTTTTTGGTGGAAATCAAACATAATGAAAACTATTTCACAT
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AATGCTGGGATTTCAGGAACATGCCACTGCACTTTATTAGTGTTACCTGTCATAAAGTTA
ATTACTCATAATTTTATTTCAGTATATATATATACACACACACACCATACACACCATAGT
AGAATAAATTAATTATATTTTCTACAAAAATTATTTTCAATCTTTT
Sequence 1711
CCGCGGTGGCGGTGCTGGCGGTCATTCTCGGCTCATTGCTGCAGGTGCTGATCCCCCGAG
ACTGGCTGTTGCGCCTGTTTGGTCGCGCCGGCCTGGGTTCCACCCTGCGTGGCGGGCTAT
TCGCCTTGCCGGGGATGATGTGCAGTTGCTGCGCCGCTCCGGTGGCGGCCGGTATGCGTC
GGCAGAAGGTCTCGGTGGGCGCGGCGTTGGCGTTCTGGATTGCCAACCCGGTACTGAACC
CGGCGACACTGGTGTTCATGGGCTTTGTGCTGGGCTGGGGCTTTACCGCGCTGCGGTTGG
TGGCCGGGATCGTGCTGGTAGTGGGTGTTTCGCTAGTGGCGCAACGCATCGC
Sequence 1712
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GTAAACCTTCAAATTTCATTTACTGGGGCAGAGATAGTTCCGGTTTTAAGGAAATAATAG
AAAATCATGGTCTGAAAATTCTCAAACCTGAAAG
Sequence 1713
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TTGCAGAGGGGGCTNCGGGTGTTTGTAATTTCTATTTCCCAGTGCAGGTGTGGTTTGCAT
GAGCATGTTCACCTTTGTGGAAATTCA
Sequence 1714
TCGACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGGCGTCACGCCACCCGAG

Table 1

CCGGACTGGCTGCTGATGGATTATGCCGACCTGGTCAGTTCGGAAGCCTTCCGCGGCACC
GCCTTTGCCGCCGCCGTGCGCCAGCAGCTCGACACGCTCGAGCGCGAGCACCCGGGGCGC
GGCGTGGAGCAAGCGATCGACATGCTGCTGNCCGTGTTTGGCGCGGCGCTGCAAAACCAG
GGCGGCACGGCCCTGTTCCTCGATGGACGCCTGCTGACGGAATTCCTGGAAACACCGACC
ACCA
Sequence 1715
TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACACCCTAGCTCCAGCTTCCCCTG
GGAGACTGTGCATCTCCTGGCTCCACTAACACCACCTTCTTCTGACCTTCCAGCCTAGAG
ATGATGACTCTGCCAGCCTAGATGGGCTCTGGGTTGTCTCCCTATTCCTGNTTGCTTTGN
AGAATNTCCCATTATGCTGNCACCAACTCCCCAGCCTAAGCCCTCTCTATTTTAAATTCT
CAAGTGGATTATGTTCCTGATTAGTCCCTGACTGATATACCACTCTCCTCATGATCTCTG
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Sequence 1716
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GCCATTTTAACATTATTTTTACAAATTTGATGTGAATATTCCATATTAGAAATATGATTT
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CCTGCTTACAATGAACTTTTGCACGTATAGTAGAAAACCAGGAGCGTCCTCAATGTGCTC
CTTCACCCTATTGGCTGCATCTCCATGAGCCCCTGAGAAGGGAAATTAACACTACCTGCA
GAGGAGACAAGAGGCACCTGAGGACCCAGGAGGACCCACAATAAGTTGCTAAAATGAAAC
ATCTGTTACATTTGTGTTTAATTAGTAATATGTCTT
Sequence 1717
NATGCTCTCCGCACCAAGCCACAGATGTGGAGGAGGCAGGTAGGGGGTCAAAGAGGGGTG
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TTTGAAGGTAAAACCAGGTCCTGTGAGTGGTAAACTGATTTTTGGTTCTTATGAGGGTAT
TATTTTCTGTGTAGATATTTGTTAACTTGGTGTCCTTGCAGGGTAAACGATCATCNAANC
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Sequence 1718
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TTTCATTAAGTGCAAACACATTGTTCTTAATTTGAAAACTGTGGGCAGAAACAGAAGCCC
GAGACTAATTTTTCCATTGCTAACTCTAGATTCTCGGCCACTGGAGTCTGAAGATACTCT
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TGGAGTGAGATTAAAAGGTTTCTTTTTTGAATCATCAGCTAGAGATGTACCT
Sequence 1719
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CTGTATTTCTGCACATCTTCACTGCACTGCGAGCCCCAACCACAGCACACACCTGCACCC
TCCCTGCCTTCTCACATAAAGCCCAGAGGGAACACCGGGCACCTTGGTGTCTTCTCAGAT
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CCAACCTGCCTAGAAGAGAGAAGCTAGTGCCCTCTGCAAAACCTCCCACACTAGGGGGCT
GGTATAAGGGATGAAAACTAGGGGGAGTCTCTTTAAGGGTGATCTTTCTGCCAAAATGAC
TTTACTTTTCCCTGAACCATAATC
Sequence 1720
GAGCTCCCCGCGGNGGCGGCCCGAGGTACACTTTCAAGACCAAAATGTAAATTTACAAAT
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Table 1

TGGCCAACGTGGNGAAAACCCTGTCTCTACTAAAAAATACAAAAACTAGCCCGGGAGTGG
TGGCGCACACCTCTAATCCCAGCTACTCAAGAGGCTGAGGTAGGAGAATCGCTGGAACCC
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GCAAGACTCTGGTAATACAGTCAAGCTGCTCCTGTCAGATGTATACTTCCTGAATGAGCA
CTATAATGGATGCTGCTCAGGTTCATCTATTCAGTAAGGTTGGAGCCTACTATATGCCAG
GCAC
Sequence 1721
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AAATGCTGGGATTTCAGGAACATGCCACTGCACTTTATTAGTGTTACCTGTCATAAAGTT
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TAGAATAAATTAATTATATTTTCTACAAAAATTATTTTCAATCTTTTTT
Sequence 1722
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NTNGGGATTGNATTAAAACTACAGTGTGTGACTTANAAAATGATAATGCTGCTTTATGGA
AAATGGATTATAGGTGGGTAAGACTTTCNTTTGCAAAAATTTGGGNAATTACCCATCAGT
NGTTAGGAACCCAGNTGAAGTCTANANGACAGATGATAGTATCTTATACTAGGTTGGGCT

0

Sequence 1723
CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTCAGCCATTCGGCGAACTG
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CGGCAGCAGGCTGAAGCGGCTGCCCGCCAGGCCGTCGCGGAACAGGTCGCGCTTGCGCTG
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CGTGCTGCATCGGCGTGTTGACGGTAAACACGTTGTACTGGTGCACCTTGCGAAATTCCG
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ATCAATGTCCATGGGAAAGTTCCCGATTTGACGCTCTT
Sequence 1724
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACATTTTCTTGATTCC
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TCACTATTTTGTTCAAAATTCTTAGGATTCTTCCCAATACTTTTAGGATAGGGCTCAATT
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TTAGTTTTCAGAAAGGCCACCAAGGGACCATCCTATTTAAAACAGTCCCCATGGTTAGAT
CCCACCTCCGTCACCTTTTCCTAGTGAGTTTTCACCA
Sequence 1725
GTNGGAGCGGCCGCCCGGGCAGGTTCTGAGTCAAGGACTTCTTTAACGTCATNNACGGCT
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AGAGCCAGGGAATTGGGGAAGGAGAGGTAGGGGAAGGGGAAGGGG
Sequence 1726
CCGCGGTGGCGGCCGCCCGGGCAGGTACATGCCAGGCACAAGCTGGAGTCACAGATGCCA
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TTGGGAAGTCAGTTGCTTATGGGAAACTGGCTGCAGGGGGATCAGCCCACCTGTAACACA

Table 1

CGGAAAGGCAGAGAAACAATGAGTCATGGATTTGAGTGCAAACAAGCCCAGTCCTGCTAC
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TCTATGGGGAACTCTCT
Sequence 1727
CCGCGGTGGCGGCCGAGGTACGCGGGGGATTTTTAGTAAAGTTTTGCCATGTTGGCCAGG
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TTACAGGTGTGAGCTACTGTGCTCAGCTCAGCCATGGAACAATCTTGATGGATAAATTTA
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ACGAGTTGAGACATTAATGATTGAGAGAGCACCTAAGCAGCTCGAAGTGCTGGGAGTCTC
TCCTAAAGAATTAGATGCACACAGCATTTTTCCCTTACAGACACTTCACTGAAGCAGTCA
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TGCATTGCACAG
Sequence 1728
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CCTTCTAGTTTGACATGCGATCTTGTCTCTCTCTTTTATAAAGTGCTTCCAGGCCCCTTT
GGATTAGGATGCTGTCCTAAATCCTTCCTAAAGAGAGGTTTTGGAGCCACCAACACTGCT
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TCCTCACTGCTCATTCATTTATGGAGATAGCACCCATATCATAGCTACTTGGTCAAATCA
TGGTGATACTCCCCACTTAGGAGAGGAAGATGACTAGGTTATAAGCTCTTGCCTTTAGGA
AATTAAAAACCCTGTGGGT
Sequence 1729
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CAGTCCTGACCAGCGTGGCAGGTATGCCTACCCAAAGCACACTCATCAATATCTTNGACA
AGTTCTTCCATCTGCAGCTATGGTGAGGCCTTTAGGGCAGGAGCAGTAGTAAGTCCCCAT
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GGATATTGAAGCATTGAATTTT
Sequence 1730
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TGATCACACTGGAAAGGCTTGCCTGAGCCCACAGTTTGAATGCCTACAATAAGATGAGAT
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AGTGGGGGGACCCAAATGCTTATGTGGGACTCACCAGGTATCGAATTTANCCATTGATTA
GGGAGTGGTTTTGGTTGGTGGNTGGGCNAGGAAAACTTTTNTTAATTCCAAATTGGAAAT
ACCAATTNGAAAACCTTTTAAAAAAAATTAATTTGNTNAGGANTTCTTTTTACCACCCAA
GGCCCAAATTNGTCAATNTTTTGGCCGTTACCCTTGCCC
Sequence 1731
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTTTCTTTAA
AAAGATTTGTATCTTGCTAGGTAATTAAACAATGTTTACAATTAATATATTTATATTTAA
ATAGAGACAGGGTCTTGCTGTATAGCCCAGGCATTCTTGAACTCCTGGCCTCAAGCAATC
TTCTTGCCTTGGCCTTTCCAAAGTGCTAGGATTACAGGGTGTGAGCCAGTGTGCCCGGCC
CAATTAATACCATCTAAGTCATTGTCTAAGGAACTTTTCGTTTCTGTTTGTTGTGGGGCC
AGACTTTGGGAAGAAAGTATGTTTGATAAGAATTTATCAGATAACCCTTTTTTTTTTTTG
TAATATCTCTTTGGGATAGCATTGTCTTCCTCTGCTTTGGGGAAGTCTTTTTGGTTACTC
ATTACTCAAAATTTGCCAAATTTAGGGGTGGGTGGTGAATTTTTGGC

Table 1

Sequence 1732
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGATTTTTA
GTAAAGTTTTGCCATGTTGGCCAGGCTGATCTTGAACTCCTGCCCTCAAGTGATCTGCCC
ACCTTGACCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTACTGTGCTCAGCTCAGCCAT
GGAACAATCTTGATGGNTTAATTAATCTGCAGGTATCTCCATCTCTATTTGCCACTCTTA
GTAAATGTTTTAGTTTGACAGTAAACGAGTTGAGACATTAATGATTGAGAGAGCACCTAA
GCAGCTCGAAGTGCTGGGAGTCTCTCCTAAAGAATTAAGATGCACACAGCATTTTTCCCT
TACAGACACTTCACTGAGCAGTCATGTTGGACTTGGGTGGCCGTCTGCTATTAGACACAC
TATTCACCAATAAAAACCCCTGAAAATTGCATTGCACAGGACTG
Sequence 1733
CCGGGCAGGTACATGAAGGAGGGCACTANGGGGAGCTAANCAATTTGTGAGTTAGGTAGC
CAAGATTCGTTGAGGTTGGAAGAATGAGGAAAGAAAGGGGATCTGTGGCAAAAATATGCT

0

Sequence 1734
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCATACTACTTTAAGT
TACCTCCTATTGGGGGCATTATAAATGGGTAAGCAGAGAACATCATGGAAAGACATGGAG
CTTAGTATATGCAAATGTTGAGTTACTCAGTGTAATGTGTGAAAAAGGAGTTTCATAAGT
TTCGGTCAGGGAAAGAAAGGCAGGGTCAAAAATTTCTGCTTGAGAAGTTTTGGGGAGCTT
GGGGAGACTTTAAACAGGGAGCAACACAGCGCCTCTGTACCTGCCCG
Sequence 1735
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCATACTACTTTAA
GTTACCTCCTATTGGGGGCATTATAAATGGGTAAGCAGAGAACATCATGGAAAGACATGG
AGCTTAGTATATGCAAATGTTGAGTTACTCAGTGTAATGTGTGAAAAAGGAGTTTCATAA
GTTTCGGTCAGGGAAGAAGGCAGGGGTCAAAAATTTTCTTGCTTGAGAAGTTTTNGGGAG
CTTGGGGAAGACTTTAAACAGGGAGCAACACAGCCGCCTCTGTACCTGCCCG
Sequence 1736
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACAGTTTTGAGCACCTGCCTT
GTGCCTCAATGAATACTTGTTGGGTGATGAATGATATAAAATTCATCTTGACATTCAGCT
TAGGTTTGGAAGACAGTGTATGATTTCTTTACCATGGCCTTGACTCATCTTCTGAATGGT
CAGGCTAAGTGCTGCCTCCTTCTCTGTGTAGCCTATTCAGGCACCTGCTCACCTACCACA
ACCTGCCAGGCCCCTCCAGCTCTGGAAGCATGCTATGTGAGAAATAATCCTAATATCCAA
GTCACAGACAGTGGGTGGGCTTGGAAGTGCAGGGCCTGTGATCCCTTTGTGGAGTAGCTG
AATTTAAGAAGTTGACAGCAATTGTGTTCTATAATGAGAATGGTCCTGATCATCATGGAG
GAATAATAGCTGCCTTTTATTGAGAAACTGTCAGGTACCTGCCCGG
Sequence 1737
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCAAACATCTTGT
TATACTTTGTAAACATTTTCTTTTTTTAAACCCCAGTTCCAGCCGGACGCCCCCAGACCT
CTGAGGTTCGAGGAGGTGGTGGTTTTCATTTGGGGCTTTGCATATTTGGTTGTTAGGTTT
TGCGAGANCCTTTTTNATTTNGCCCAGACGTCTTNATGCCGGNGGTGAAANTTNCACTTC
GGGCNCCCCTCCCCTGGAGNTCTTTTGTGTGCCGCNGGAANTTCAGTGGAAGATCCGGTT
TACTNAGCGATATAGGAGGGATNTATANCTNNNNANTTCNNNNNTTAANTNTATTTGTTC
CTTGCCCGGNGNCGNGCACNCNTNNACTGCCCGCTTT
Sequence 1738
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCAAACATCTTGTTATACTTT
GTAAACATTTTCTTTTTTTAAACCCCAGTTCCAGCCGGACGCCCCCAGACCTCTGAGGTT
CGAGGAGGTGGTGGTTTTCATTTGGGGCTTTGCATATTTGGTTGTTAGGTTTTGCGAGAG
CCTTCTTTATTTTTGCCAGACGTCTCAATGCGGGGTGAAGTCCACTCGGCCCCCTCCCCT
GAGTCTTCCGTGTGCGCGGAATTTCGAGGAGATCCGGTTACTAAGGATATAGAGGAAAAA
AAAAAANTTAAAAATTAAAAATTAAAGGTACCTGCC

Table 1

Sequence 1739
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTATGATGGAAG
GAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGT
AGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAAT
GCAGTGAAGTAGAAGAAGACAGGGGATATCCCAGAAGGTTATGCAAAACATCAAGAGAAG
ATGAGAGGAGTCTATATGTCAGAATACACATTTCCCAC
Sequence 1740
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAACATACAGTTAAGCTA
CTTAAGTTGTAGTGACTTAGGACTTAATTATCTTATAGGATAAAATAAAAACTTTAATCC
TAAACATTAGCCATTGCATTAAATGCTTTAAAGGAACAACTGGCTTTGAGCTCTGTTCAT
CCATGCAAGGATTATACAATCTCAGTGCTCTAGCTAAATTGCTAATGTTTTATTACTAAT
GCACTGGTAAGCCTCTCATAGAAGATGGGTCTCTTGGATTTACACTGAAATATAACTTTT
CTCTTCCATATTATTGGAAGACCTTATTCTTCAGGCAGGAGCTTAGAAAGTCTAAATTAT
GCACCAGAGCCTTAATTATCTGATGGCAAAAACCACGATACTCTGGTCACTACTACCAAT
TGACAATNAGAGGACCCCAATTAAAAACTCTAGAAATATTGAGTCCTGAATACCAG
Sequence 1741
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGAAAGATGATATACATGAAAATGA
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TATTTTATCAAGTTGTTTCAATGAAGACAGAGTTGATTCAGAAGGTAATTCCCAGATTGG
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TTCACATGCTTCCTCTTGATGGCTCATCAGGATTTTAGAGATAGAAAGGACATNTTATCC
AACCGCTTTCATTTTCTTAAAGAAATTGGGGACCGGGCGCAGTGACTCATGCCTGTATTT
CCAGCACTTCGGGAGGCCGAGGCAGGTGGATCCTAGGTCAGGAGTTCAAGACCAGCCTGG
GTCAAGAATGATGAAACCCCCGTCTCTACCAAAAAAA
Sequence 1742
GGCGGCCGCCCGGGCAGGTACAGTTACAACTGACTTGCATAACACTAAAGAAAACATTGT
AATTCCTACGCCAGTAGTGGGGGTAAACTGAGAACCAACCTAATTTTCACCACAGGGCCC
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TAGGACTGTCTCTGGAATGCATGACAGCATGCACAGTTCAGAGCTTGGATGTGATCCTGG
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TCCTCTAGTTGACTTCTATGGCTGTGCCAGCCAGTCCTAGACCCTTCTAGAAGAACACTA
GGATGATACATTTC
Sequence 1743
AGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCAAACGCAAACAGCAGA
ATCATATGGCATANACACTTAGCAAATCCAATGCCTTCCAGGCATCTTGTTTCCTGTTGA
TGAAATCCTCCCTATGGAGAGCAAACTGGTTCATATCTTCANATANTGTCATTCAACCCC
TTGGGCAGCCTTTTCTTGGGGCTAACTAAAATATTNCGGCACCCCGGTTTCTTGGGTTGG
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GGGCCTTTCCNGTTGGGGAAGNAAAAATTTAATTCCTGGCCNCTTTTCCTTTCTTGGAAG
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CCCCCCCGNGGGGNCCGGGGTCCCCGGGCTTTCTTAAGNAAAAACNTTAATGNTTNGNGN
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GGCCTTTTATTTCNGAATANANCCCNGTTCCGNACCCCCTTTCGGNAGGGGGGGGGGGGG 0

Sequence 1744
ACAAGGTCTCACTATGTTGCTCAGGCTGATCTTGAACTCCTGGGCTCAAGGGATCCTCCT
CGCTCGGCCCCCCCAGAGTGCTGGGATTACAGGTGTAAGCCACCACACCCAGCCAACATT

Table 1

CTTATTTTTATGCTTCCTTTGTAAATATAGTGGAGAAAAAAAATCACTGTATTAGGATTT
CTCACCAAGGGCAAGATAGTCATATGAAATAGTCCTTAGCTTCTTTAGTTGCTTGAATAT
TACCTCCCTGGTCTGTGAGGTATCTTTTTGCTTCANATCATTTCCTCAAAGAAACACATT
ATTGGTTAATATNATTGGTCACCTTTTGAAGTTGGGTCCTATATGCTGATTCCGGGTAGC
CCCAGACTTTCAA
Sequence 1745
AGGTACAGTGGCGCCATCTCTGCTCACTGCAAGCTCCNTTCTCCCAGGTTCATGCCATTC
TCCTGCCTCAGCCTCCCAAGTAACTGGGACTACAGCCGCCAGCCACCATGCCTGGCTAAT
TTTTTGTATCTTTGGTAGGGACGGGGTTTCTCCATGTTAGCCAGGATGGTCTAGAGCTCC
CAACTTCAGGTGAGCCACCATGCCTGGCAGGACTTTTTTTGATGTAAGCAGAGCCCCTTT
TGCCAGCTTCCTTGGGCTTATTCCCCCATAGATGGCAGCTGGGATCCCAGCCTCTTGCCG
GTTGATATTGTCATTCTTGGAGGGGGCCCAGGTTGGGGCTAATGCTCGTGTGACTAGAGC
TTGCTGGTGTTGAGGGTGGTTCATCTGAAGTTCATGACCACTAGGCTTTGATCTAAAAAA
A
Sequence 1746
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TGTAAGTTTAAGGGGCGCGAACCTGGGTGGACGGGGCAGTTTTTCCAGCGGGCCATACG
GGAAAATTTTTGGTTCGAGGAAGACAACCACCCTTTTTAAGGAGAAAACTGCATCTTGCC
CTGCGTTATTCCTACGCGGTGCCCAGGTGGGGTGTGTGTGGACCAAGTCAATGACCGCCC
AAGCTCTCCGAGTAGAAAACCCAAACATGGTTTTGTGGGGTGTGTGCCTTTGACCCCGGA
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CCCTGCGTGCCCCTCGACGTTGAACCGATGATTTGGGCGGGTGCCAAGGATAAACAAGAT
TCGCCCCTTCTTTNGCCCACTTCAATTGGGCAAGGGGGGACCTTTGCTTACTTTTCCCG
Sequence 1747
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GGTTTAAGTGAGATGCCAAACATTCCTCATTTGGGAAAATGCGCAATAGTCCACAGAGAG
AACAAAATCAAAATGTGAAAAGTTGAATAAAAAACACTCCTTTGGAAATAAAATATTACT
CAGCATAAGTTAGCTGACCTCATCTTTGGGACTAGAAAAATAACAGTAAATAGTAATAAT
AGCTCCCGCGTACCT
Sequence 1748
AGGTACATCTCTAGCTGATGATTCAAAAAAGAAACCTTTTAATCTCACTCCACTGATCAG
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GTTTCTGCCCACAGTTTTCAAATTAAGAACAATGTGTTTGCACTTAATGAAACAACCTCT
ACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCCTGGGCGGTCCCCTGTAA
GTACCTGCCCG
Sequence 1749
AGGTACATCTNTAGCTGATGATTCAAAAAANAAACCNTTTAANTTTANTTCNNTNNNCNA
NTTTTAANCCTAAAATGGTTTAACCTGTGAACCAAAATAATATGCATTCTNAAAGAAGAG
TATCTTCAGACTCCAGTGGGCCCGAGAATCTAGAGTTAAGCAATGGAAAAATTAAGTCT
CGGGCTTCTGTTTCTGCCCACAGTTTTCAAATTAAGAACAATGTGTTTGCACTTAATGAA
ACAACCTCTACTGCTCTTCAAGAGGACTCAGGATACCGATTCTCGAGGCCCCTGGGCGGT
CCCCTGTAAGTACCTGCCCGG
Sequence 1750
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAGATAACTTATC
CAAGGACAAATAGAAAGGGGACTGTGTCTAGAGGGTAATGCTAATGCCTGGCATGCTATA
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Table 1

ATGAGATGACTTTAAAACGGTGACAGCTATCTCAAGCCCTGTGATTATAAATGGTGTTAT
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CACTAGGAATTCAGAAGATTTTAATTAAGTTGTTCAAAAAATTTAATGGGAATTTTAAAG
GCTGGCTCACTAAGTAGTTTTGATAATGAATTTAATTTATAGAAGAAAGTTCTTGGC
Sequence 1751
CACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAAG
AATGTTCATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAAGCAACCCAGTTGTGCATC
AATGGTAGAATGGATGACTAAATTGTAGTGTATTCTTACAATAAAATACTATAGAGCAAT
GAAAATAAATAAACTATGGCTATATTCCACCAACATGGATAAATCTTACCAACAATGTTA
GACAAATGTAGCCAAACCAAAAAATACACATGTTCTATGAATCCATATATGCAAGGTTCA
CAATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAAGGACTGAGAGAGTATTG
CAGAGGGGGCTCCGGGTGTTTGTAATTTCTATTTCCCAGTGCAGGTGTGGTTTGCATGAG
CATGTTCACTTTGTGGAAATTCATTGAGCTGTAACTAAATATACAGAATTATTTATGAAT
GAAATG
Sequence 1752
ACCACTGCTTTCCCGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTAC
CACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGCGTCCT
Sequence 1753
CAATCTGTTCTGCTCACCAGCGAGTTGTTCGAGTTCATCGAAGACGGACACGGCGGCCAC
CTGCTGAGAGTGGGGACCTCTAAATTTCCGGTCGGCACGCTGCGGTTCACCGCCCAT
Sequence 1754
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCACCACTGTTCCCCAG
CCTGCCAGATAAAAATAAACTGTCCACTCCAGGAGGGGAGAGGCACAAGCTGCTCTGATA
GAAACCGTTCCTGAGCATTATCTTGACTGTTTGCAGAGGAGACATGTGTTCCCAGCCAGC
ACAGAGCTGCAGGATTGCCTTTTGCGATTTGTGAGAATTATGTCATAGTGAAATATAGTT
GAGAATGCTGGGCAGTACCTGCCCG
Sequence 1755
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTTCGCTGCTTTT
CTTGAGTTCATTTGTCTTTCCAATGATCGTATATGATTGAATAGTAGAGAAGGCACCTGC
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GTGCCAATAACTGCACTCTGAGTAATCCTGGGTCACTTTCATCAATTGAGAGAGTTTAAG
TCAGGGGACTTATGATTTCTTTCTCAACAAGACCAGGTGAACGTGTTTTTGCAGTTCTAA
GTATTATTTGCAAATTAAATAGCCATATATCTCTAAAGCTTCCTGAGCAACAACCAGAGG
TACCTGCCCG
Sequence 1756
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTATGGCTGAGTGTTT
CAATTAAAAAATACATTGCATGACAATTTTCTGTTTCACAAAGAGAAACAGCATTTTTGA
AAAATTGAATTCTCCTGTGTAACCTGGTAGAGTTTTCTATTCCTGAATATACATCCTTTC
ATAGATATTACTAGCAGGCTAAACATCTGGCATTTAAATGTCATTACTATAAATAAACCA
CAAAATTGGCTGCCTGATTTGAAGGGTCAATCTTATGGAGTAACTGAAGAAGAATCATTT
TTAAAGGAGATGAGCAGTTTTGGATTTATGATACCAATAATTTCTCTCTTTAAGGAACTC
CAACTCACTTAATTTAATGTTAAGAATAAAATCAGACTAATTAGTTCTCAGGACAGGTCA
ATGGCACACCATTTTCCTTTTCACTTTGGCAGAAACCTAGGAGTCACTT
Sequence 1757
CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGC
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AGCCAGAAGCCAAAAGCAGTTCCCAGAGGCCAGGCAAAAACAGAAGCTGAGTGTGGGACT
GAAGCCAAAAAGCGGAAGATGATGAATTCCACAGCGAACCGTGGGAGCCGTCCTGGAACA
ATGCCTGAGATGCGCGCTGGCTTTCTGGGAGCAGTTAGGGCCCCTTTAGGTATGTGAACC

Table 1

CGCCTCACTAAATGGCCATGAGCAGAACTGAACTGCCTACCTGTTTCTCCACCTGTGCAA
GACCAAGTTTTCTTAAGAANCCCAGACGAANGCTTCCTTTGAAAATNATACCGTTGCCAT
TTGGCTTGGCCCCTTTGGCCTTAAAGCCTTAACAGGTTTANGGACTTTTGGGCCCCTGGG
TTAAATTT
Sequence 1758
TACGACTCCTATAGGGCNNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGT
TGAGAGCCAAGTCTCCCTTATNATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAG
GGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTT
ACTCATTCACACGTTAATGGAAGAAGAAGGGAAGTTTCCTAGAAAAATCCTCCCGCTCCA
CCCTGCAAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGACAAGACCTAAACTATTT
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TTCAGAGTAGCATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCA
GTAGTGGTTGGGAAGAATCTGTTCTTACTTTCCTCCCATCCAGTTGACTAGGGATTTGGG
AAAG
Sequence 1759
TGGGCCGCTTTTTCCGCTTTCTCGCTTAACTGACTTCGCTGGCGGCTTCGGGTCGTTCNG
GCTTGCNGGCGAGCGGGTATCAGCTTCACTCAAAAGGGCGGTAATACCGGTTATCCACA
GAATCAN
Sequence 1760
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGATGAAATGAGT
GATTCTGTCCTTAACAAACTCCTAGTCTCGTGGGGTGGACAGCTGGGAACTCATTTAGAG
AGATTACAAGGATGAATACCCTTGGGCTCGATAGAGGTAGAAGCAAAGTGCTTAGTGTTA
GAGAGCGTTTCTTGAGGAGGGAAAATCAGAATCAGTCTGGGTTTTAGGAAGATAATTCTG
GAGGTTGAGTGAAAGATGAATGGAGAGGTGATAGACTAGCTTGGGCATTATGGAGATGGA
AGGAGAACGGAAGGGGCAGATAGGACAACTAATTGGAGGCCGGAGTGAGAGGAAGGGGCC
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TTCCCATTTGACAAAGGGAAGA
Sequence 1761
GACTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGGGGCGGTATCGAGAGTGTG
CAGCGTCAGACGGGACATGGGGTACCTTGCTAAGTTGGTAAGTCACCCGGCCATTATATC
GGCCATATCGCGCACGCAACAGACGTCAGCGTCGTCCTTTTGTGCTCGTTCGTCTGTGAT
TGTGCGATCCTTGATTCCGGCAGGCTCTTAGCTGGCCAGCTGGCGCAATTTCTGGTCGCG
CCGGTAGGCCCCTGGTTGCTCGCCCGTGACCCGCTTGAAGGCGCGTGTAAAGGCCGGCGT
GCGAGCGGTAACCCACCAGTT
Sequence 1762
CCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCT
GAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAAC
AATTGAGAAGGAGAGAATTCTACTGGTC
Sequence 1763
NACTACTATAGGTTNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCGGG
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CTGGGACCCACTTGAGGAGGCAGTTTGTCCGTTCTCAGATCTCCAGCTGCGTGCTGGGTG
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TAAAAAGCCCTGGGGGGGTGCCCTA
Sequence 1764

Table 1

CAGAGGGGTCTGTCACATAGATGCCTTTCACAGCTGGAAGTGGCAGAGCAGTTGGGTGAC
CCTACCCAAAGGAAAGATAGATGTGTTCCTGGCCAGTGCAGGGGTGAGATGTGAGCACAG
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GGTCATTGCCCAGATCAGTTCCAGTGCTACATGATGCTGGTGGTCATGACTTGCAAGGGT
GGTTCCTGGGCCATCAGTGAGAATAACACAGGGAGTTCCCTCTCTAGGTCTCAGTGAGAG
AACAGTCTCTGAGGCCCTGGCTTCTGAGCCGGATATTCCTGATGGGTACCT
Sequence 1765
CCGCGGTGGCGGCCCGCCCGGGCAGGTACGAGTAAACTACTTGAAGGCAATTCCTGTGCT
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GAAGCTCTTAAGGTGTCTGTCAAAAAAACAAAGCCAACTGTCAAACTGAAAAGCCAAAAT
CATCACAAAAACACCTATTCTTCAGAGGCCTCAAATCTCAAACTATCTCCCACCATCCTT
TGTAAGTATGTATAAGGAGGCCAGGAAACTAGCATTTGCTGAGACTTTATTCTCAGCTTT
GTATGCTTTGCATAAATGATGTCATAGAACACATTGACAGTGAGAAAACTAACGTATTAA
CATTTTAATTACCTTGCCCTATCACAAGATTAGAAAGATTCAAGATATGAGACATCCAAA
GTCTGTGATCTGAACACCAGAGTCAGAGGCTGGCAACCTATGGCCCACGGGCTGAATCTG
GCCCACTGCCTGTTCCTATAAAATAAAGTTTTATTGGA
Sequence 1766
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Sequence 1767
AGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCAAACGCAAACAGCAGA
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CAAACGCAAACAGCAGAATCATATGGCATAGACACTTAGCAAATAGGCAAGCGTCTCTGC
ATCCCAGAGCAAATCCTCTGAGATCCTCAGTCTCTCCTGCTGAAACTTCATCTTCCACTC
CTGCCTTTGGGTCATTTCCAAACGGCAGGGCACCAGACACGCTCTACCTTATGTGGAGCC
ATACTGTTCATTTATTAGTTTTCTGGCTTCGTGGAGAATTATCTGCCTTCTCTGAGTATT
GATTTCATTGTGCCCCCGCGTACCTGCCCG
Sequence 1768
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Sequence 1769
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CCTCCTCCACATCTGTGGCTTGGTGCGGAGAGCATCTCTGGGCACTGGAGGAACGGTACC
T
Sequence 1770
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GGCATGTAAATGTGATAAAGCGGATCCGAAGACACATGGGAGTGAGACTAGGAAAGTATT
AAGAACATGGGCCTTGACCGGGCGCAGTGGCTTACGCCTGTAATCCTACCACTTTGGGAG

Table 1

GCCGAGGCTGGTGGATCACAAGGTCAAGAGTTCGAGACTAGCCTAGCTAAGATGGTAAAA
CCCCGTTTCTAAAAATTAGCTGGCACAGTGGCGGGCACCTGTAATCCCAGCTACTTGGG
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CACTCTAGCCTAGGTGACAGAGCAAGACTCTGTCAAAAAAAAAATAATAATAAAAAAGAA
TGTGGGC
Sequence 1771
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GTTCTTCCCCCACTTCAAAGCTGACTTGACAACTGCATTTATTTCACATTGCAATTGCTG
CAGGTTAATAATATTGTTTTATCAGGAAACATTTATCTTGAGGAAGAAAGTTATCCTAAT
ACNGCAAGATTACCTNATCCCANGGNCAAANTAGAAAGGGGACTGTGTCTAGAGGGTAAT
GCTAATGCCTGGCATGCTATAAAAATAAATGAAATCTGATTAACACTATTGGAGGGAAGA
ATAAGTCATCGTTTCTATGAAATATTATGTTTCCTGATTGGAACCATTTTCCATTTTCCG
TCAGCTTAAAAACATTGCATTTAAAGGATTGAGATGACTTTAA
Sequence 1772
TNNNCCNTCNGTCCTTTTNGGTTTGCNGCCGAGGCGGTNTTCAAGCTCACNTCAAAGGGC
CGGGTTAATACCGGTTTATTCCACAAGAAATCAGGGGGATAACCGCAGGAAAGAACATTG
T
Sequence 1773
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ANATTNNANNCCNNAAAGCCTTCAAANTTCCTTTATTAAGAACTTGGGGACTGCATCTTT
AAAATAATATGGGTTTTNTTTTATTCTTTGATAATAAAAAGAATGGAACCAAATCCTGGG
TTGTCTGATTCTTTGCCCANTGCNTCTTTCTNATGTCTAACACTGCCTCGTCTTATGAAT
AACNTCTGNACATNTACAGAGGAAAGGACTTATTTGNNTT
Sequence 1774
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACACTTATAGT
TGAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAG
GGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTT
ACTCATTCACACCNTNATTGGAAAAANAAGGGAAGGTTTCCTAGAAAAAATCCTCCCGCT
CCACCCTGCAAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAAACTA
TTTTGAATTGGTGGTGTTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGGTGAT
CAATTTCCAGAGTAGCCATGTTACAAATTTTGTCCCCAATTTTCAATG
Sequence 1775
CCGCGGTGGCGGCCGAGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCA
AACGCAAACAGCAGAATCATATGGCATCGACACTTAGCAAATCCAATGCCTTCCAGGCAT
CTGTTTCCTGTTGATGAAATCCTCCCTATGGAGAGCAAACTGGTTCATATCTTCAGATAG
TGTCATTCAACCCCTTGGCAGCTTTCTGGGCTACTAAATATCACACCGTCTGGTGGGACA
TTTCACCCAAGTTGTTCATTTATTAGTTTTCTGGCTTCGTGGAGAATTATCTGCCTTCTC
TGAGTATTGATTTCATTGTGCGCATGGTGAAGATATCGCCTGT
Sequence 1776
CGAGGTACGCACTTGTGTGCNTTTCTGTTGGGTATATAACAAGTATGATATTGCTGGGTC
TTAAAATATTTATATATTAACTTCATTAAATGCTGCCTAAGAATTTTTCAAGTGGTTGCG
CTATTTTACCTTCACCAGCNCTAGNTGTTCCATATCCTTGCTGTNACTTGGCATNATCTG
TATTTTTTATTTTGACCAGACTGGTCTGTGTGTCATAGTATCCCATTGTCATTTTAAGTT
GCATGCCTTTGATGAAGACATTTTCTGATGCTTAATTGGCTCTTNGAATATATTCTGTAA
CTGATTTGTAGGAGTCCCNTTATATATTCTGGATATAAGNTTTTTTATTGGACATAAATA
TTGCANATATCCCTCTCCCACTTTAACTTGCCTTTT
Sequence 1777

Table 1

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTA
TTCTGAAAAATCTATCTCTAGAATGAAGTCATGACAGTTCACCCTACTCTACTAGTTTTG
TCCAAGCTAATTTTCATGTATGATTTTGTAATCTGATTGAACAATACTTGAAAAAAAAAA
AGTTAGATATATAAATGAATTTGTTGGGGGATAAAACATAAATTAAGCCTATCCCTATAA
AATCTACTCTTTCCTGACTTCCAGGAGTGGTCCTTTATTTGAGAGGCAAAACATATACAT
TTCACATTACCATTTTTGAGACTTGATGAAGCCCAGTCCTAAACTGTGGCTGAGGCTAAG
GCTGAATGGTTGGGATTTACTGTGAGAATGGACATTCTCCCGGGTCCTCACCTGAGGTCA
TTAAATTGATTTAGTCTAGGTCCACTGGTTGTATTTT
Sequence 1778
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGAGA
CAGCATGCAGGGTGTGTTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTAAAAAT
GTGATGTTGGTATATCATCCTGATAGAAAACACTGCTTTCCAAATCCTAGTCACTGGATG
GGAGGAAAGTAAGAACAGATTCTTTCCAACCCTACTGATTTGTTATAATTCTCCCCATTG
AAATTGGGACAAAATTTGTAACATGCTACTCTGAAATTGATCACATTCTCAGTTCTGTCA
ATAGCAGAGAATTTAGCCTCAACACCACCAATTCAAAATAGTTTAGGTCTTGCCCCTGCC
TGATTATGTAACAGAAAAGCATTAAAGTTTGCAGGGTGGAGCGGGAGGATTTTTCTAGGA
AACTTCCTTCTCTTCCATTAACGTGTGAATGAGTA
Sequence 1779
CTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGGGTCCGGCGCATCCATGGCGA
ACAGGCAGACGAACGCGCCTTGCTGCGCGCTGCTGGCGGTGGCGCCCTGCGGCGCCAGCA
CCGTGAATTGTGGCGCCGTCACCAGTTGCAGCAGCGGCTTGGCATCGGTGCGCAGCACGC
GGCGCGGCTGGCGGCGCGGGCCCNGCGCCGCANCAATGGCGGGCCTGNAGTTCCAATNGG
CAAGGGTGCGCGCGCGGCNN
Sequence 1780
CCGGGCAGGTACAGCACCTTGTGTCCTGCCACCAGCCGGCTGTGAAACTGGTACGCGGGG
TAGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTA
GGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCT
GCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATC
AAGAGAAGATGAGAGGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTTCT
TGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCCACCTTG
CCCAA
Sequence 1781
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGTTTTTAAATC
TGTCACTGTTCTTCCCCCACTTCAAAGCTGACTTGACAACTGCATTTATTTCACATTGCA
ATTGCTGCAGGTTAATAATATTGTTTTATCAGGAAACATTTATCTTGAGGAAGAAAGTTA
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AAGAATAAGTCATCGTTTCTATGAAATATTATTTTCCTGATTGGAACCATTTCCATTTTC
GTCAGCTTAAAACATTGCATTAAAGATGAGATGACTTTAAAACGGTGACAGCTATCTCAA
GCCCTGTGATTATAAATGGTGTTATAGGCTTG
Sequence 1782
ATAGGGCGAATTGGAGCTCCNCGCGGTGGCGGCCGAGGTACCAAAGGTCTTCAAGGGTAA
CGATGCTGCTCCATTTAAATAAAAGATGAAGGATGTCGAAACACAAGCAGCCTTTAACCA
GTAGGCCCATAAATAAGACAGTAGCTAGTGCTATGCAATTCTAACACTGGCACTTGTGCT
GGGATTGGCCTCTTCTAGGCTAGGAATTCTTAACCTGGAGGTCAAGGACTTGGGGGGAGG
GTCCTATGGACCCCTTGCAATGTAGGCAAATTTTGCATAAACATTTTTCTGCACACGTTT
CAAAGGAACTTGGAATATCCGTAAGTTGAGACCTCCAAATTACTAGAGCTAATTGCCCCA
TTTTATTCCTTTGTATCATCTCAAATGCCAATATAATATCTAGTGTATAATAAATGTTTG
CTGGCTGCTTAGGAGAGAACTAGATGTGTTAATGACGCCATCTCACAGTGAAAAGGGGCA

Table 1

G
Sequence 1783
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTACAGGGGACC
GCCAGGGGCCTCGAGAATCGGTATCCTGAGTCCTCTTGAAGAGCAGTAGAGGTTGTTTCA
TTAAGTGCAAACACATTGTTCTTAATTTGAAAACTGTGGGCAGAAACAGAAGCCCGAGAC
TAATTTTTCCATTGCTAACTCTAGATCTCGGCCACTGGAGTCTGAAGATACTCTCTTTGA
GAATGCATATTATTTTGCTCACAGCTAAAACATTTAAGTATCATAGCTGATCAGTGGAGT
GAGATTAAAAGGTTTCTTTTTTGAATCATCAGCTAGAAGATGTACCTCGGCCCGCTCTAG
AACTAGTG
Sequence 1784
NGCGGCCGAGGTACACTTATAGTTGAGAGCCAAGTCTNCCTTATCATTGGTTAATGAGAA
TGAGCTACTGAAAACAAAAAGAGGGTCTTNTACTCAGCCTCTACCCCTAATATTTATATC
AGAAGCAGAGATTAACTGTCCTTACTCATTCACACGTTAATGGAAGAGAAGGAAGTTTCC
TAGAAAAATCCTCCCGCTCCAC
Sequence 1785
CCGCGGTGGCGGCCGCCCGGGCAGGTACCATTGACTACTTCATACTGCTACAAAATGCAT
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ACTAGAGAAATGTTGGCACTTATTAACCTTGTAATATGAATTAGAAACAAACTTGACCTT
CATATATTCTTTTACACTTATGAATCTATTTAACTGCATGATTTATCTGCATGATTCAGA
ATTTTCTTGATACCATGTAACTGAAGTAAGATTTAGAAATATATTTTCTTGATACCCTGT
AACTGAAGTAAGATTTAAAAAGCTGAGGTGACAGTTGTCACCCATAATGCTGATAAATAT
AGGAATGAGTCGATTATAAATTTAAACCTTTTGGGGGCATTATGCTACCAAAATNTCTCT
TTTTTAAAA
Sequence 1786
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CCATAAGCAGAGACTGTGTCAAGGCGTCCTACGCAAATTACAGGACCTTGCACAGACAGT
TGCATAGAGCTGCATAGGGGAAAGGCGGGCAAAAGGTCTGACCTAAGTCTTCAAACACAN
GCCTTCATACACCGTGCCACCT
Sequence 1787
GGTGGCGGCCGCCCGGGCAGGTACAGATTGNGTCCACTGGAAAGGTAAATGATTGCTTTT
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AAAAATAATTCNTCTTTCTAGGTTATGAANAGATAATTATTTGTCTGGTAAGCNTTTNTA
TAAACCCACTCATTTTATATTTAGAAAAATCCTAAATGTGTGGGTGACTGCTTTGTAGNG
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AACAATTTCAGAATTAAAGGAAATTTTCTATGCAAGGTTTACTTCTCANATGAACAGTAG
GACTTTGTACTTTTATTTCCACTAAGTGAAAAAAGAACTGTGTTTTTAAACTGTANGAGA
ATTTAATAAATCAGCANGGGTATTTTAGCTAATAGA
Sequence 1788
AACCTTTAGGGTTNTNCCCAAAGTCCCGGCCGNCCGGNTNGGGACTNGGGGGTTGAACAC
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ACGAAGCCAGAAAACTAATAAATGAACAACTTGGGTGAAATGTCCCACCAGACGGNGNGA
TATTTAGTAGCCCAGAAAGCTGCCAAGGGGTTGAAAGACACCTATCTGAAGATATGAACC
AGTTTTGCTCTCCATAGGGGAGGATTTCATCAACAGGAAACAAGATGCC
Sequence 1789
AGGTACGCGGGAGTAAATACAGTACAAATTGTTCTACTGTTTTAAAAAGTTTTCCGCAGA
ACAGTGCATTTATGGCAATGCTATGTTTAATGAGTTAGGGACATCAAATATATAGTAGTT
CCTTATTTTCAGTTGTGAAAATGAAATGGCTAAAGCAGAAGAGACGTCTATTTTAGTCTT
TTAAAAATGTGTGTGGGTGGTCTTTTTTCCTCAGAAGCCCAAAGCACATGTATATTTTGT
TATTTCTCCTTGCTATATTCCTGAGACTATACTAAAAACTTTAAGAAAAGGAACAAGAAA

Table 1

AAGGTAAATTCATGTGTTCCCCACTGCTGTGTCTAGAACCAAGATCACATTATATCATTG
TTAAAATTGTGTTATCTAGAAAAGGTGCAATATAGGGGAAAACACTCTAAGAATCTTTTA
AAAGCCTAGT
Sequence 1790
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TGTAGGTGGGCTCCGCTGGGTAAAAGTTGCCGCAGCAGCTGTCCCTTGGCCCCATCGCGA
TTTATTTTTCCCCCTTGCTTTCCGGGTCCCGGGATCCCAAGTTTGTAACTAACGGGAAGC
GAAATCCCACCCGAAGCAAAATGTTTGCGAAGTTTCAGGCNCCCTTAATTGAAAGGCTGT
AATTAACAAGTCCGTTGTTTGCCAGCCAGGCNCCGTTGCAGGCNCTTTCTGNNGATTGNC
ATTTATTTCTCACAAGCAACCNTAGGGGGNTTGTTANTNNTTGAAAATNTGGAAAANACN
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GGGGGAAAAAAAA
Sequence 1791
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TTTTCCCCACCAAAGTGTTCCCAAGGGCAAAAGTAAGTGAATACATGTTTCCATGCTTGT
GTCAGGGGCACACAGCAAGGGAAGGCAGAATGGGCATGACTTAGATTAGATTCCAGAAGC
CCTCAAATTTCCTTATAANACTTGGGGACTGCATCTTAAAATAATATTGTTTTTTTTTAT
TCTTTGATAATAAAAGAATGGAACCAAATCCTGGTTGTCTGATTCTTTGCCCAGTGCTCT
TTCTTATGTCTAACACTGCCTCGTCTTATGAATAACTCTGACATTACAGAGAAAGACTAT
TGTTTGTTCAGTTCAACACTCAATTCCATAGGTGCTAGCAATTATGAAAAAGGCTGTTAG
TATCCAGCGGGGAAAGCAAAGGATCCGCAGGTGGTAACACCCTA
Sequence 1792
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TATCACATTGTCATCATACTCAGAGAGAGAAAGGTGTATACACCCAGTATTTTCTTATGT
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CAGTTGCTTATGGGAAACTGGCTGCAGGGGGATCAGTCCACCTGTAACACACGGAAAGGC
AGAGAAACAATGAGTCATGGATTTGAGTGCAAACAAGCCCAGTCCTGCTACAGAGAGTTA
CGGAAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAAATGACTGAT
AGATCCTTTTACAATATTCTAGGGTAGTCTGTCTGTGGGAGGGGGCAGGAGTCTATGGGA
ACTCT
Sequence 1793
AGGTACAACTTGACAGTTTATAAAAATGCTAACCTATATCAACATTTTTCCCCACCAAAG
TGTTCCCAAGGGCAAAGGTAAGTGAATACATGTTTCCATGCTTGTGTCAGGGGCACACAG
CAAGGGAAGGCAGAATGGGCATGACCTAGATTAGATCCCAGAAGCCTTCAAATTCCTTAT
AAGACTTGGGACTGCATCTTAAAATAATATTGTTTTTTTTTATTCTTTGATAATAAAAGA
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GCCTCGTCTTATGAATAACTCTGACATTACAGAGAAAGACTATTGTTTGTTCAGTTCAAC
ACTCAATTCCATAGGTGCTAGCAATTATGAAAAAGGCTGTTAGTATCCAGCGGGGGA
Sequence 1794
GTAATACACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCTGCG
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GTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGT
TACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTA
CCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACC
ACTGCTTCCCGGGACTCTGCGTTGTACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnCGGGCTGCAGGAAATTCGAATATCAAAGCTTTATCGATACCGTCGACCTTCGAAGG
GGGG
Sequence 1795
CCGCGGTGGCGGCCGAGGTACTCTGCGTTGTTACCACTGCCTCCCGGGACTCTGCGTTGT

Table 1

TACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTA
CCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACC
ACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCAC
TGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTACCTGCCC
G
Sequence 1796
ACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAACATTTCGACATACGCCAGCA
TGTGATGGCCGAAGGTGATCGGCTGGGCCACCTGCATGTGGGTAAAGCCCGGCATGATGG
TGTCGGCATGCTGTTCGGCCAGGTCCGTCANCGCGCTGCGGAACGTCGCCAGCAGGGCGG
TGATGTCGTCGATGGCGGAACGCACGTTACAGGCGGGATGTCCGGTGGGCCACCTGGTCC
TTGCGCGAACGGCCGGTGTGCAATCGCTTGCCCGCATCGCCTACCAGTTCGGTCAGGCGT
TTTTCGATATTAAGGTGGACATCTTCCAAGATCCAGCAGCCATTCTAAC
Sequence 1797
NTTTTTTTTTTTTTTTTTTTTTTGGGCAATACCAGCTTTCACCCTGTCTTCTGCACTGCTT
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CAAAATAAATCACGTCCAGGTGCATTCTTTCCTAATTTGTGACCCAAACTGCTTGCACTT
TATACATTAATGAATTATTTTTTTAAAAGAAATTAGCTNTATCATGAAGACAGTGCTATC
TAACCCTTTGTGGTCTTTCTCCCTTAAAAAGCAATTGTTACCATTTTATAGGTGTTAGGT
TTAATCTACATATTTGAATGAAGCTGAAATGAACTAACGTATGTCAACCAGTAAAAGCAG
GACACTTAATAATAATGCTTCCATGAAAATATACATTGTGCATATGTAGGCTCTTTTTGG
CATTACCAAATTTGCCAAGAACTTTCTTCTATAAATTAAATTCATTATCAAAACTTCTTA
GTGAGCCAGCCTTTAAAAATTNCCAT
Sequence 1798
CGNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGATCTTACCACTGAGGAATTTT
AAGTTATCATTCCTGTAAACATTTCTCCAGTGGCTCCACGGAATTTAAAAATGCCTTCCA
AATTGCCTTCAGTTTTCACAGGCCATCTCTTACCCTGTGCTGTCTCTCCCCAGGATTTTC
TGAAGTTCCTTGTCTGCCTGAAGTNCAGACCTGCCTCCTCCACATCTGTGGTTTGGTGCG
GAGAGCATCTTNTGGGCACTGGAGGAACGGTACCTGCCCG
Sequence 1799
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCACANGATCT
GTTTCCAGAAACCACTACAAGTGTCATGAACCTTGGGTTGCTCTCTGATTGAATTCTGGG
ATCCAAGCTGGGTAAGGAGAGAGATGAGTCCAGGCTGCTACAGAAGATTATTTTCCATAA
TTTCAATATGAGCAGTTTTNAAACACANAAGGATTTNNTNGTCNATGTTAGCTAGGCCAG
CCTTAACACTTCCTCTACCTCATTTCTTAGAAACCAACAAGGGCCTTTCCAGAGAGGGCC
AAGGACGGTGGCATCCAGAAGGGATGAAAACACTTGAGTACCTCGGCCGCTCTAGAACTA
GT
Sequence 1800
ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACTTGACAGTTT
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AAGTGAATACATGTTTCCATGCTTGTGTCAGGGGCACACAGCAAGGGAAGGCAGAATGGG
CATGACCTANATTAGATCCCANAAGCCTTTCAAATTCNCTTATAAGACTTGGGACTGCAT
CTTAAAATAATATTGTNTTTTTTTTTTATTCTTTGATAATAAAAGAATGGAACCAAATCC
TGGTTGTCTGATTCTTTGCCCAGTGCTCTTTCTTATGTCTAACACTGCCTCGTCTTATGA
ATAACTCTGACATTACAGAGAAAGACTATTGTTTGTTCAGTTCAACACTCAATTCCATTA
GGTGCTAGCAAATTTATTGAAAA
Sequence 1801
CCGGGCAGGTACTCACAGATCTGTTTCCAGAAACCACTACAAGTGTCATGAACCTTGGGT
TGCTCTCTGATTGAATTCTGGGATCCAAGCTGGGTAAGGAGAGAGATGAGTCCAGGCTGC

Table 1

TACAGAAGATTATTTTCCATAATTTCAATATGNGCAGTTTTAAAACACATAANGGATTTA
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ACAAAGGGCCTTTTCCAGATGAGGGCCAAGGACGGTGGCATNCAGAAGGGATGAAAACAC
TGAGTACCTNGGCCGCTCTANAACTAGTGNGATCCNCCGGGCTGCAGGNAATTCGATATC
AAGCTTATCNGATACCNGTACGNCCTNTGAGGGGGGGGGCCCG
Sequence 1802
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAATCACTGGGTGTCCCAGT
GCCCGCTGTGAGCTACGCTACCCGCCTAGGAGAGTCTGAGAGGCCAGTCTCTCTTGGCAG
TGAGGCCGTCTGTCCGGAAATAGAGGCGCACATTGGGAGGGAAATGCTCTCTGTGTACCT
GCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnGCCTGNAAGGAATTTCTAANAT
CAANGCTTATCGATACCGTCTGAC
Sequence 1803
TGGCCGCCCGGGCAGGTACGCGGGGATAATAAAAAATGTATTTACTGAGCCAGTTGTGGT
GGCTCGCGCCTGTGGTCCCAGCGCCTTGGAAGGCCAATGAGAGTGGATCGGTTGAGGCCA
GGAGTTTGAGACCAGCCTGGCCAACATGGTGGGATGCCGTCTCTACTGAGAATACAGAGA
TGGGCCGGGCGCGGTGGCGCGTGCCTGTAGTCCTCAGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACTGCACTTGGCCTGGACTCATCTTCATTGTCCACCTCCTAGGCTAAATT
TATGTCTTTTATGTGCTTGTAATCTCTGCATACCACTTTAGTGACACTTGCCCTGGAGTG
TGATTGGTAATCC
Sequence 1804
AGGTACTTCTGCCTGGGTTATGGGAGTAAAATCTTGTCCAGGGACATCCCAGGGAAGGTG
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CTCTCCTTCTCATTGTTCCAGTGGTCTATCTTTGTCAAGAGCCAGAAGCCTTGAATGGTC
TCTCCAGAAGTCTCAGCTACGTGACCTTTCAAGTCTTCCATGGCAGTCTCAATGGCCCC
Sequence 1805
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TCCATCGATAGGTGGTCAGTCTCAGAGGGTTGGTCATCTCCCTCTTGCTTCAAAGACACA
GNCCTGGAAATCNTTCAAAACTCCCAATTGTTGACATTTCTTCAGCCTGACTAGGCTGGT
CCTCAAGGCTCTTCTTTCTCTTTCTGCACAAAGGGGGCTAGACCACAGATAGTGGCCAGG
AGAGGTGTGACTGGCTCAGATAAAGCCAGGCAAGACAGTGCCCTGTGCTGTGACCCCACT
CAGTCTCCCGCGTACCTGCCCG
Sequence 1806
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ATCTTTTTCTATCCTTTTACTTTTCTTTTAAAAATAATTTNAAAAAATTAATTNACATAC
CCCTAAAATGCAGAAGATTTTTAAGTGCTCAGTTCAATGACTGGTGACAATTATACACAG
CTATATATCCCACCCCCAAACAAGATATTAAACCATATATAATATTTCATACAGGNTTTC
TCATGCCCCTTTCCAGGCCAATCCCCAT
Sequence 1807
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AAAAGAGGAAAATGCTAGTGGTAAAATGTTAAGTAACAAAAACATATATTATCCTCAACA
AAATATTATCAAACCAAATTCAGCAACATCTAAAAAGANTTATACACCATGACTAAGTGA
GATTTATCCCTGGAATAAGCTTAGTTTAACATCTGAAAATTCATCAGTGAAATACACCAT
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CAAACTCCAACACCCTTTCATGATAAAAATACTCAACAAACTAGGAATAGATGAGAATTT

Table 1

CCTCAACCTAATAAAGGGCTTCTGTGAAAATCTCAAGGCTAATTTCGTATTAATGG
Sequence 1808
CCGCGGTGGCGGCCGAGGTACTTCTGCCTGGGTTATGGGAGTAAAATCTTGTCCAGGGAC
ATCCCAGGGAAGGTGAACTTGCCCAGGCAGATGCGATAGACAGCGCTCAGAGGAATCCGC
TGCAGCTGCACACAACTCAGCATGATGAAGTCGTATTTGCAGATCAAGAGAGTCTTGTCT
GTGACCAGTAGAATTCTCTCCTTCTCATTGTTCCAAGTGGTCTATCTTTGNCAAGAGCCA
GAAGCCTTGAATGGTCTCTCCAGAAGTCTCAAGCTACGTGACCTTTCAAGTCTTCCATGG
CAGTCTCAATGGCCCC
Sequence 1809
CCGCGGTGGCGGCCGTAGCTTGCAGGGGTGCTATGTGAAGATGGCGGAATTCCCAACGTG
CTTCTGCAAAATTTTATGTATTCATCCCCCTCTGCTCTCAGTAGGGTGTTACCACCTGCG
GATCCTTTGCTTTCCCCGCTGGATACTAACAGCCTTTTTCATAATTGCTAGCACCTATGG
AATTGAAGTGGTGGAACTGAACAAACAATAGTCTTTCTCTGTAATGTCAGAGTTATTCAT
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CCCAAGTCTTATAAGGAATTTGAAGGCTTCTGGGATCTAATCTAGGTCATGCCCATTCTG
CCTTCCCTTGCTGTGTGCCCCTGACACAAGCATGGAAACATGTATTCACTTACCTTTGCC
CTTGGGAACACTTT
Sequence 1810
GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGCAAGATGGAATTTCATCAT
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GCCTCCCAAAGTGCTGGGAATACAGGTATGAGCCACTGCACTCGACCATTTATGCATTTC
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TTTAAGTCACTAAGTAGCAGAACTATATCTAATTTATTAACATTCATCATCCCCCTTTGC
CAGCATTGAACATGATGTTTTGCATATANTAGGCATTAAATTNGCTAAANGGAACTAAAT
AATGTTTGATAAATAACATCATGGCACATGACCATATTAGGCCTAACTAATTATTTATTC
TTCCATTTAGTGAGTGCAAAACTTTAGTCAAAAACATTAAACATAC
Sequence 1811
CCGGGCAGGTACTATTAAATTTAATGAGAGGTAACCCATGCACCGGCAGGAAGTTCAAGG
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TTGACATGCGATCTTGTCTCTCTCTTTTATAAAGTGCTTCCAGGCCCNTTTGAATAAGAT
GCTGNCCTAAATCCTTCCTCCCGCGTACCTN
Sequence 1812
CCGCGGTGGCGGCCGAGGTACGCGGGGGGGACAGGCCATCTCGCTATAGGAAAGGAAAGT
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GATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAGGTAGCA
CAAGTGAAANCAAGATACAGGAGATAGGGAANGGAAAGCTGGAAGCANAGGTCACTGGAG
GGAGAAGGGAGATGGACACATTCAGGGCTACAAAGCAAGTTCTATGTGATTTGCTCACCT
CTCAATTGTGGGACCCCTCAAAATGTGTACCTGCCCG
Sequence 1813
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGACAGGCCATCT
CGCTATAGGAAAGGAAAGTGGAACAGCATTCATCCTCAACATTTTTACGAAGACAAAATG
AAGACTGGAGTAGAAGACTGATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGAT
GTGGTGTGAGAAGGTAGCACAAGTGAAGCAAAAGATACANGGAANATAGGGAAAGGAAAG
CTGGAAGCAGAGGTCACTGGAAGGGAGAGGGAGATGGACACATTCAGGGCTACAAAGCAA
GTTCTATGTGATTTGCTCACCTCTCAATTGTGGGACCCCTCAAAATGTGTACCTGCCCG
Sequence 1814
AGGTACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCG
GGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGG

Table 1

ACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCGGGACT
CTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTCT
GCGTTGTTACCACTACTTCCCGGGACTCTGCGTTGTACCTGCCCG
Sequence 1815
CCGCGGTGGCGGCCGCGTCCTTGCAGGGTTTTATCGGCGCGCAGGTGAAGGCGGACCGCA
ACCGCCTGGCGCTGGCCATGATCTTGTGCTGGCTGCTGGCCGACGACTGGTTCATCGGCC
AGCGCTTGCCGCAGCAGGATCTGCTGCAGGTGCTGGGCGAGGCGGCGCGCGAACTGGCCG
CCAGTACGCCGGCCCACCAGTTCACGCAAGACCCGGAGCGGCGCGAGGAACTGGCGCGCA
TCGTGCTGGCGCGCCTGGGCTTTCGGCCCAGCGACGAAAGCGTAGCGCAGGCCACGGACA
GATTGTCTGCCATCAGCGGCACGGAGCGCCGCCGCCTGCTCGAACGAAGCCGCTGGCCGA
ACAGCGCGCGCGGGAAATCCGCGAGGCGCTGGCGAAAAA
Sequence 1816
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Sequence 1817
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Sequence 1818
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TCAAACTCCTTACACAGCCCACCTGAGTGATCAAANGCTTGGGTGGAAA
Sequence 1819
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Table 1

AAACGCAAACAGCAGAATCATATGGCATAGACACTTAGCAAATCCAATGCCTTCCAGGCA
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ATAGCACAAGAAATGCTGATATCCNTCAGGCTGAGGGCTATTAAACAAGATGGAAATCCA
GAAATTATAGAAAGGACAAAAAGAACAAAAATGAGAAGCATACAGGTCAATACAAAGACT
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Sequence 1820
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CACTCACTCACTACCCCTGCCCCGCGTACCTGCCCG
Sequence 1821
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Sequence 1822
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A
Sequence 1823
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CAGCCTCAGAGAGCTTCTGAACATTTCTTCTCAGACTAAGCTCTTACACACAGTTGCAGT
TGAAAGAAAGAATTGCTTGACATGG
Sequence 1824
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGATGTGTT
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AGATTCAGAGGCGTGTTTGAGGCAAGGTTTTCATTGTGCAGTGAGGAAATTGGCACATAG
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Table 1

ATTAAGAAGAAATTTGAGATAAAGTTAGTAATTGTNAACTANTCTTTATTTATTTTAATA
ACAAATGTTGCAGTATAATTTT
Sequence 1825
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GCAGTTAAAATAACATGACACACAGATATCAAAACTGGCAACTGAGAGAAGTCCAAGGTC
CTTGGCAAAGAGAAAGCCACTGACCATCCGTGGAAGTGTAGTAGGGTGACAGCCAGAATG
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Sequence 1826
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Sequence 1827
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TAGTAGAAAGTATTNNANNAAGGGAGGTNCTATATTGGTCAAGNAATAACCAACATTTTT
TCCCCA
Sequence 1829
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TTATATAGTGCTTGTATTAATGATTTTGTGAATGTTTTTTAAAGATGGATACCTTGATTT
GGCTTGGCCTNCCAAAGTGCTGANATTACAGGCGTGAACCACCGCGCC
Sequence 1830
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ACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGGTAAGCCCT
TGGTTAAATTTATTGGCTTCATTTATGTATCTCACAACACTTCTTTTCTGTTTTAGTTCT
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Sequence 1831
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GCAGATGTTTGTGCTAGAAGCTGTGGGTTTACGTCTCCTTTGTGCATGTGTTCCAGACAT
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Table 1

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TGGTAATTTA
Sequence 1832
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AATGAAGTGAAATGGTATTTATCCATTTCCTGGAAAGGTCCAGGGTTTGGCTCTGCAGGG
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AAAAAAA
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Sequence 1834
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Sequence 1835
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Table 1

Sequence 1836
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CCCACCAGACGGTGTGATATTTAGTAGCCCAGAAAGCTGCCAAGGGGTTGAATGACACTA
TCTGAAGATATGAAACCAGTTTTGCTCTCCATAGGGAGGATTTCATCAACAGGAAACAGA
TGCCTGGAAGGCATTGGATTTGCTAAGTGTCTATGCCATATGATTCTGCTGTTTGCGTTT
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Sequence 1837
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AATTGACCACAAGCAAGGGAAGCCTGGC
Sequence 1838
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CAGGAGATCTCAGAGAGGGTACCT
Sequence 1839
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Sequence 1840
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Sequence 1841
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Table 1

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ATAGAAAGAAAGTTCTTTGGGCAAAATTTTGGTAATGCC
Sequence 1842
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Sequence 1843
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NCCAGATGATGGAC
Sequence 1844
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AGTGCAAAAAAGTGCATGACTCACTTGGAGGACT
Sequence 1845
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Sequence 1846
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TGTTGTATTTGTGAAGGTGAGGAATACTAACTATATTTCTTTAGTCTTTGAAGATCACCA
TATTTAGCCATTATTCTATCAACTGTTAAGCCTTGG
Sequence 1847
CATTTTTGTTANCANNGAAGTGAGNGGCATCTATGTATTTTTTAAGGTATATAATGAAAT
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TCTTACAGACTANCTTCTTTAGTGGTAACATACANGCCGATTTTCTCACTCCATGAATGA
TTACNGACATGTATCCANNANCGGAGGTCCCTCATCCACCATTTCACCCAGGTGTCTTGC
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Table 1

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Sequence 1848
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AAGAGTGCTACAAAATACTGCTGAAAGGAAATTC
Sequence 1849
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AGAGAGTTACGGAAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAA
ATGACTGATANATCCTTTTACAATATTCTAGGGGTAGTCTGTCT
Sequence 1850
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CTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACAT
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GTCAGCAATGTGATGGTGTTTGGGAGGGTGGGAGCCTTCAGNAAGGTAATTAAATGCCCT
TGTAAG
Sequence 1851
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CCTGCAGCCAGTTTCCCATAAGCAACTGACTTCCAACTGGGAATGTCTCGGGGGATAATG
GGGGTGGGGATATGNGAAGTATAGAGAAAACATAAGAAAATA
Sequence 1852
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Sequence 1853
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TGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTTCTACTCAGCCTCTACCCC
TAATATTTATATCAGAAGCAGAGATTAACTGTCCTTACTCATTCACACGTTAATGGAAGA
GAAGGAAGTTTCCTAAAAAAAATCCTCCCGCTCCACCCTGCAAACTTTATGTTTTTCTGT
TACATAATCAGGTAGGGGCAAGACCTAAACTATTTTGAATTGGTGGTGTTGAGGCTAAAT
TCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTCAGAGTAGCATGTTACAAATTTT
GTCCCAATTTCAATGGGGAGAATTATAACAAATCAGTAGGTGGNTGGCAGAATCTGTTCT
TACTTTCCTCCCATCCAGT
Sequence 1854
CCGCGGTGGCCGGCCGCCCGGGCAGGTACCTCCTCCCTATGCATCTGCTGTGGGAAGTGT
GGGTAACTCACAGATGATGCCACAGGGCATGTATTCAGGCACCACAGGCAGCAGTGAATG

Table 1

AATGAAGTGAAATGGTATTTATCCATTTCCTGGAAAGGTCCAGGGTTTGGCTCTGCAGGG
CCAAGAGAACAGCTTTAGTTGTGCCTTAACCCAGTCCTGGAGAAGCCAGCAGGCCGTAAT
CACGGGGAGGAAACCCATCTTTTAAGGGCTCCTCGCTCAGGTGGTGACAAGGTGAGGTGG
TCATCTATGCTGTCTTTATCAGTATCTGTCCTAAATACTGTGCTCTGACATTGATGCTAA
TATTCCATATTATCAGGGCTTCTGTGGTGTTTAGGCCTCTAATTTTTCTCTTCAGTAAGG
GGAAT

Sequence 1855

CAGGTACATGTCAAAGGAAAAACACGTGAAAGATGAATTCAGCCAAACCCACCAGTGTTC
AACCTCAGCCTAATCAATCTCATACTCCTAGAGGCTTAAGTATCAGCAGGTAAGATCGTG
ATGACCTGTCTNTGAGGCTCCAGACAATAATTTCTAACTGCCAACTGGAAATCCTTATAT
GGTTAGGCTGCCAACATCCCANGGAACAGGACCAAAATAAAAAGCATCACTCATTATCCT
ACTGCAATTTTCCTCTTCCCTTTGTCAAATGGGAATGATCTTTACNATCATGATCCTTNA
TTGCANCCAGNACAGAAATCATGAATGTCATCTATGGCCCCTTNCTATCACTCCGGGCTC
CAATTAGTTGTCCTAT

Sequence 1856

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGA
GCTCCCATTTCCCCACATCCTGGATGATACATGTTATTTAGACATTCTAATTTCTTTTCC
AATCCAGTAAGAACGACATGGCAACTCATTATATTCATTTGCATCCACTCTATTGCTATT
GAGATTAAGGGCTTTTACTGTTTTTCTTATATTTCTTGGCCACATGGCTTCATTTTCTGT
GAATTGCCTTTCTTATGGTCCTTTCATGGTTAAAACAGCCCTTTAGAAGACTCGGATTTT
AAGGTTGGATTAGGGGTTGGGATTTGAGAGTTTTACACCATGGCCATGCCTCGTTTCCCT
AAGTTATCATTAAAATGCTCAGCCTCCACAGCCCATATCCATGCATATCACCCAGGTTGT
CCCAGAACATTCAAGAACTTACTGCTCTTGCTTTGAAT

Sequence 1857

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGT
GACTAAATTTGTAGGAATGATATTTTCATGGGATTACTCAATCTCACCCACCATTAGTTG
CAGGTGACAAGAAAGCTAAGTTGGCAGATGTTTGTGCTAGAAGCTGTGGGTTTACGTCTC
CTTTGTGCATGTGTTCCAGACATACCAGTGGCTTGGTATTTAAACATCATGCTCAGGTGT
GCAGGGTAGTTTTTGAGTTATAATANGTATGCAGGCGCTGTGGGATTACTTGGTTGTTTA
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GGTTCCAAGGCATTGAACTGAGATACCTGCACTGTTTGCTGTAAATTTAAGCTTAAAATT
GAAACCAGGTTATCAGCATTTCATGCCAGGAGAGAGTGGGCATGAATGATTTCAGGAAAT
GAAGAG

Sequence 1858

CCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTAAGTTTAAAATCAAAAGCAAGANAT
ATGATACTTGCAGCTCANAAAGCAGCAGGACTTCGGTGGGTTGGAACGCAACTCTTCTTG
CTGTTGTCCCAGGTGATTTTTCATCAACCAAGTCTTAGATCAATCAATTACACAAATATG
ACACTATTACATCTTTCTTCTGGAGTTATCTTTCTGTTGGTCTAATACTCAGATGCTTCT
GAGCCACGCAAAGTAAAAGCCCCAGGTNGAATATCCATGAGATGGGACTGATTGTGCTTC
CATGGTTTACCTATCTCAGTGGCCTGCCCTCCTGGCCCTGTGAAATCAGTTTGGAAACTT
GCCCTTCTTCTTCCTCCTGGTGGTCTTATTAA

Sequence 1859

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGAGTTTTTC
AGAATCAGGCCTGCTTTGTCCCTAAATGCTTTCTTATTTCCCCAGAGCCCTTATTGGATT
TAAGCCCCATATCATATCTCACATACCTGAGACAGACATACCACAGTGAACCCTGCATGT
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CTTACTCTTTTGCTTCATAAAGTTGCTTTAAAACAGCCTTTATTTTAATTATTAACAAGG
TATGTCACACATTTTTAAATTTTAAGGTTAATTTAGTCATTAATTCTGTCAAACAAGTGT
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Table 1

CTTTATTCACTTGGAGTAGAACTTCC
Sequence 1860
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGTTCAAATAGTCAGCAGCTCATCATAATC
AATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCATGGTGGGCAAGGAAAGCAAGTT
ATTGGAGGCACATGTTAACACATAAAATATAAAATTAATATGATCACCACTGGAAAGGCT
TGCCTGAGCCCACAGTTTGAATGCCTACAATAAGATGAGATGCACAACAAAAAGCAAGAG
AACCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATCAGTGGGGACCCAAATGCTTA
TGTGGACTCACCAGGTATCGAATTAGACATGAATAGGGAGTGTTTGTTGTGATGGCAAGA
AACTATATAATCAAATGAATACAATGAAACTTTAAAAATAATTGTAAGGAATCTTTACAC
CAGC
Sequence 1861
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTAAAACATTTTTTCC
TTGAGAAATCATTGCCTAAATCTCATACATATGTGCTTCTCTGCAGAAAAAAAAAATGAA
ATAAAATAAAAATCTTTATTTCCAATGAGCTAATGAGGAAAAAGGGGATGATGAAAAAAC
AGGGAGGTGGGAAGCAATTTGGAAATGGAAAGAATGCTGAATACCTACATGATGCCTAAT
TTAGAAGAACATTCTGGTATGTAGGACATTATTTTCAACTCTATCACTTACCGGCAGATT
TTTTTTTATATGCAGATGTATCTCTACTCTCTAAAGATGTACATGTGTACACTTATAGTT
GAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGGAG
GGGTCTTCTACTCAGCCTCTACCCCT
Sequence 1862
TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACT
GCACACCACAGGGTGGCTGCACTTTTTGGGTGGTGGGGTGGGGATGGGGGCAGGTATGAT
CAATCATCCAAACCANGGCATTTTTAAGAGTAAAAGGAGGCTCTACTGATAACATGCTGC
AACAACAGATTTNANNTAGGAAACTGGCCCGCTCTANNAACTANT
Sequence 1863
CCGCGGTGGCGGCCGAGGTACGCGGGGTGAAGGGCTCTCTGTATACTGCTGAAGATTCTA
TAGTTTCTCCTGAAATCCATGAGGGAGCCCCCTGAAGGATTTTGGCCAGNAAAGTGTCAT
GAATCAAATTTCTATTTTAAGAATAGTATCGAGGCAGCAATGTCAAAGTTTGGTTTANAA
AATANGGATGGTTCCTGTAATCCCAGAACTTTTGGAGACCAAGGCGGGAGGATTGCTTGA
GTCCAGGAATTTGAGTCCAGCCTGGGCAACATGGTGAGACCTCATCTCTGCCAAAAAAAA
ANNNNAAAANAAAGGTCCCTGCCCG
Sequence 1864
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GGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCT
CTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAA
GACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGAT
TCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCT
GGACAAGATTTTACTCCCATAACCCAGGCAGAAGTACCT
Sequence 1865
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGG
AAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACT
TGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAA
AATGCAGTGAAGTAGAAGAGACAGGGGATATCCCAGAAGGTTATGCAAAACATCAAGAGA
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AGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAAC
AGTAGAAAAAAAAAAAAAANNAANAAAAAAAAAAGGTTCCTGCCCCG
Sequence 1866
GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTATTTAAAGGAGGAAAGAGCGATG
AATCTACATGGAAAATTAGGTGAAGGAGTGGAAAATTGCATCGGCCATATAAGTCCAACT

Table 1

ACATATGGATCTATTCCTCCATGAAAAACTGGAAATTTCACTTTAACATGGTATTTGCAC
AGTCAGCAGCAATTCTTAACAATGTCTTTCTTGCTGCTGACATCATATTTTTTCACCCCA
ATAATAGAGGATAATTTGGACCCTTTCTGCTTTTCATTTAATTCTGTCTATTTCTGATTG
CACTTCTCCTACTTCTCTTCCCACATGAGAGATGATTGTATTACTTGTGGAATATGATGA
ATCACTTCAACAAGAAATATGTGGCATCTGGTTAAGTTTCTTTCTAGCATATAAATTAAG
CTTGAATCACAGCTGGGTCAAACATTTTCTTTGAAACGGG
Sequence 1867
ATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGT
TGAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAG
GGTCTTCTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTT
ACTCATTCACACGTTAATGGAAGAGAAGGAAGTTTCCTAGAAAAATCCTCCCGCTCCACC
CTGCAAACTTTATGCTTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAAACTATTTTG
AATTGGTGGTGTTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTT
CAGAGTAGCATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCAGT
AGTGGTTGGCAGAATCTGTTCTTACTTTCCTCCCATCCAGTGACTAGGATTTGGAAAGCA
GTGTTTT
Sequence 1868
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTATAGTTGAGAG
CCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTT
CTACTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTTACTCAT
TCACACGTTAATGGAAGAGAAGGAAGTTTCCTAGAAAAATCCTCCCGCTCCACCCTGCAA
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TGGTGTTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTCAGAGT
AGCATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCANTAGTGGT
TGGCAGAATCTGTTCTTACTTTCCTCCCTCCAGTGACTAGGGATTTGGAAAGC
Sequence 1869
CGTATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGT
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GAACCATCCTATTTTCTAAACAAACTTTGACATTGCTGCCTCGATACTATTCTTAAAATA
NAAATTTGATTCATGACACTTTCCTGGCCAAAATCCTTCAGGGGGCTCCCTCATGGATTT
CAGGAGAAACTATAGAATCTTCAGCAGTATACAGAGAGCCCTTCACCCCGCGTACCT
Sequence 1870
CCGGGCAGGTACACAAAAAAATGCCCCATTATCCCTTTGCTGTGGGAGCAGTGCTGATGC
TAGTGGCTCGCTCTTTGGTCCTGGCTCTGACTCCACCAGCAGTAACAACCAGCAGTGGTG
GAGGCTGTGGGTGCAATAGACTTTTATCATGGCCACTCTTCTGGAAGATGTCACTGCCAG
CAACTCCTGACTCAGCTTTGGCAGCAGCTGCCGCATCGAAGACTGTTGTGAGTGGGGAAA
GGTAATGGGGCTGCAGGAATGTGAGGATGTAGGGACTTTGGGACCTCCAAGGCAGGATGC
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Sequence 1871
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CAGACCATGTGACAACCTCCATTCTACAAATATGTAACCACAAAGAAGGTGAGTGGGGAG
GCAATAAGAACCCAGACTAACAGAACATCAGAAAAGCTGGCATACGCACACATAAAGAAG
GGGGAGAATATAGGACTATATGGGAGGGAGGAAGGTCACAGAAAATGATTACGGTTTTGA
TGTTGTATTTGTGAAGGTGAGGAATACTAACTATATTTCTTTAGTCTTTG
Sequence 1872
AGGTACGCGGGGGTATTTAAAGGAGGAAAGAGCGATGAATCTACATGGAAAATTAGGTGA
AGGAGTGGAAAATTGCATCGGCCATATAAGTCCAACTACATATGGATCTATTCCTCCATG

Table 1

AAAAACTGGAAATTTCACTTTAACATGGTATTTGCACAGTCAGCAGCAATTCTTAACAAT
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TTTCTGCTTTTCATTTAATTCTGTCTATTTCTGATTGCACTTCTCCTACTTCTCTTCCCA
CATGAGAGATGATTGTATTACTTGTGGAATATGATGAATCACTTC
Sequence 1873
AGGTACGCGGGGTCCAGTGGACGCCAGGGATCTGAAGGGCAAAGGCAAGGGCTGCTGGAG
CCTGCATCATGTCGAGTCCGCAGAGGAGGAAGGCTATGCCCTGGGCACTGTCACTGCTTC
TCATGGGCTTCCAGCTCCTGGTGACTTAT
Sequence 1874
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAAAACTCATTTCAGTTAAGGGGAAAAAAA
GAGTAAGTGAGCCAGGATTACAGTCCAACTCCAGTCAAAGTTAGTATAAGAAATAAGAGA
ATAAATAGATCAACATCCTCACAGACAATGAAAGCACACCGGAAGGACATGACCACAAGG
CAGATAAAAACCTAATATTTGCCAAAAAATAAAATGCAAATATGACAGGAAATTTATATT
AATTAGTACCT
Sequence 1875
CCGGGCAGGTACCAAAAGAATGTTCATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAA
GCAACCCAGTTGTGCATCAATGGTAGAATGGATGACTAAATTGTAGTGTATTCTTACAAT
AAAATACTATAGAGCAATGAAAATAAATAAACTATGGCTATATGCAACAACATGGATAAA
TCTTACCAACAATGTTAGACAAATGTAGCCAAACCAAAAAATACACATGTTCTATGAATC
CATATATGCAAGGTTCACAATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAA
GGACTGAGAGAGTATTGCAGAGGGGGCTCCGGGTGTTTGTAA
Sequence 1876
CCGGGCAGGTACTTTCTTGGCCAGACATCATACATCTGCCTCTATAGAATCCCTCATTCA
GGGGGTCACTGATGAAGTGTAAGGCCCTAGGGTTGAGCTTCAGCTCCACTGTGGGGTAGG
TTTTTACCTTCTCCAAAGCTTCATTTTCTCATTTGTAAAATGCAGATAATGTGTGTCTTG
CCAAACTCTAAGGGCTGTTGTAAGAGGTTTAAATGGCATAACAGATAGAAATGATTCAAG
CTATTAAGTCCTTTATAAATGTGTGGAATGTTGTTTCTCTGTATAAATCTTAGCTTTTCT
ATTATCTCAACAAAGGTGATTTTCTTGTTAAGAAGGTTTAGTAGCCAGGCATTGGACAAC
T
Sequence 1877
CCGGGCAGGTACTTAGGACTATGGAGAAACAATGGAAGACATTAATTCTGCTTGTCTTGA
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ATAGAGATAGCTTATATTTAGAACAAGTTAGTAGAGACTGTATGATTTTCCAAATAGAGA
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TTATAAAGAGTAACTGGGTATGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCGGCACTT
TGAGAGGCTGAGGAGGGTTGATCATGAGGTCAGGAGA
Sequence 1878
AGGTACTTCTGCCTGGGTTATGGGAGTAAAATCTTGTCCAGGGACATCCCAGGGAAGGTG
AACTTGCCCAGGCAGATGCGATAGACAGCGCTCAGAGGAATCCGCTGCAGCTGCACACAA
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CTCTCCTTCTCATTGTTCCAGTGGTCTATCTTTGTCAAGAGCCAGAAGCCTTGAATGGTC
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Sequence 1879
AGGTACCCAAGCCAGAAAGTGAGCCCACTCTGACTCTCATGAACTGGGTCCTGATTCCTT
TAAGGTTATTTTGCCTAAGTATATTTCCACTCTGGCCTCTCCTTTCCATGCCCACTGCAA
CCACCAAATGTGCCACATCCCACCCAGATAAGTACCTGCCCG
Sequence 1880
CCGGGCAGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAA

Table 1

TGCAGTGAAGTAGAAGAGACAGGGATATCCCANAAGGTTATGCAAAACATCAAGAGAAGA
TGAGAGGTCAGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGTTCTTGCCCAAGC
TTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGT
AGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGC
Sequence 1881
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCACGTGCAGAAAAGAAAGA
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AGGATGAGCTGAAAATTCTCCTGGTCGTTGCCAGTTGAACTTCTGCTGTGCTCTGGGAAG
GCATTCTCACTCTGTTTATGTTGTCTAAGTGCANACATGGATGTGCAGGTTTGCTAGAAC
CTCCTGAGGATGTGCAATGGTTCTGTTCATGCCTGAATCAGTTCTTTTGGGAGTGGACAT
TCTTTCTCTCCCTCATGCACAGCCTCAGGCACATGGCTTGAGCTATGGCGGCACGCAGNA
TGGCCATCACCCAGGTACCTGC
Sequence 1882
AGGTACACTTATAGTTGAGAGCCAAGTCTCCCTTATCATTGGTGAATGAGAATGAGCTAC
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AGATTAACTGTCCTTACTCATTCACACGTTAATGGGAAGAGAAGGAAGTTTCCTAGAAAA
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TAGGATTTG
Sequence 1883
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TATTGCCTCCCCACTCACCTTCTTTGTGGTTACATATTTGTAGAATGGAGGTTGTCACAT
GGTCTGGGACGTAACGGAA
Sequence 1884
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TAGAACAGGCGATATCTTCACCATGCGCACAATGAAATCAATACTCAGAGAAGGCAGATA
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GGTGTGATATTTAGTAGCCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATA
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TGAGCTGACTCAAAGTCAAACTGTAAGTACCT
Sequence 1885
ANGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACTGTTACTAT
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CTAATGATGTGGAGATTTGAACTTAGGCTGTTTGTCTCCCAAGCCTATGTTCTTAAATTT
GGGGAAATAGTAAAGATAATTTCCACAATGTGAAGACAGTTAGCAGCCTTAAGGATGAAA
GGATGGTGCAAATACCATGCCCAGTGAGTGACAGAGTATCAAGGCTGGTAGAGCCTGATG
AAAGCACAAGTTTTCAGAAAAGAGGGAAACAAACAATTCCTATAAAGTTAAGAAAATCAC
ATTGACACCAGACTTCTCATTGGTAGAGACCACAAAGCCCTTTTCAAAAGTGGGTCAAAC
TGGCAGGCTGAGCACATATCCTTCCCTCCCTTTCTG
Sequence 1886
CTCCTATAGGGCGTTTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAAGA

Table 1

ATGTTCATAGCAGCATTATTTGTCATAGTCAAGAGCTGGAAGCAACCCAGTTGTGCATCA
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AAAATAAATAAACTATGGCTATATGCAACAACATGGATAAATCTTACCAACAATGTTAGA
CAAATGTAGCCAAACCAAAAAATACACATGTTCTATGAATCCATATATGCAAGGTTCACA
ATAGGTGATAGTAGCTACTCTTTTGGGAAGGAGTGAGGAAAGGACTGAGAGAGTATTGCA
GAGGGGGCTCCGGGTGTTTGTAATTTCTATTTCCCAGTGCAGGTGTGGTTTGCATGAGCA
TGTTCACTTTGTGGAAATTCATTGAGCTGTAACTAAATATACAGAATTATTTN
Sequence 1887
CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTTGTTTGTTTTTTTT
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TGCAACCTCTGGGCTGGGCAACGGTGTGAGACTTGGACTCAAAACACACACACACACACA
CACACGAAGCGGGAAAAATTCTGGTGCTTCGCAAAGTCATCACAATACAAATCAAAATAA
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ACCAAAAACCTTTTACTGTGAGAGCGAAGCTCTTATGGAGTTCTACCCTCATCAGNGATCT
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GTATTAATTTTGGTAAGAGATGAGTTACCAAGTTAGAAATTAGTGTGGTCCCAAATTAAA

0

Sequence 1888
CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTAT
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GCAAAGGACATGAACAGACACTTTTCAAAAGAAAAAATTCATGCANCCAACAAATATATG
ACAAACAGCTCAACATCACTGATCATTAAAGAAATGCNAATCAAAANCCNCATTGNGATC
CATCTCACTCCAGTCAGAACCACCATT
Sequence 1889
TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTGTATTTCCAAAAG
TAAGTTTCTATTCCTAGAACTAAAACAGAAAAGAAGTGTTGTGAGATACATAAATGAAGC
CAATAAATTTAACCAAGGGCTTACCATTTTCCTGCAGGATGTTTATAAATAGTTCCTGGC
AAAGGAGGTTGCCGTATAGGGTCCTACAAGTAACCTAGGTGGCAGCATCTCCTCCCAGCG
TCAGGTCTAAGCACACAAGTTCTCCCGCGTACCTGCCCG
Sequence 1890
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCTTTAAATG
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TGGAAAACCCTAAATGTCACAGAGTCTGGAAAATTGAAATAATAAGGGGCAGCATTCTCC
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ACAAGGTTGGCTGTCTTAANCATTGNGGTGGAGAGCAATGGAAAGATGAGTGTGTAGTGG
GAG
Sequence 1891
CGAGGTACGTAGGGGCCCTTTGCTGCAAGCTTAGGCCAGTGTCAGCTCCTGAGCCACTCC
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GTCCCAAGTTTTACAGTGTTGAGACCAAGTGGGCAGCCATCACCATTGAGGGGTGCCCTT
TTGCTCCCCCTCGAGTCCAAGTTATAGTATTGCTTACTTCCTACCTGAAATAGTTTATGG
GTCATGGGTCCGGCTTACATCAAGCCCCATAGCCAGTCTGGTTGCCCCACCTAAGGTCTT
GGTGCTCTTTGATAATAGCCACAAGCTTAAATGTATTAAGTCCTGTCCTAGGAAATGCAT
GATCTTCTGCTCTAGAACTAAGTG
Sequence 1892
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGNCCGGGCAGGTACAAGGG

Table 1

GAGACAGCATGCATGGTGTGNTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTANCGTTAA
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CCCCATTTGAAATTTGGGACAATTANTTTGNGGGCATNGCTACTCTG
Sequence 1893
GNCCGGCCAGGTACTGCCACAGGACTTTCAAAAAGGAGGGGGAAAATTAATGAAAGTGAC
ATGCATCAAACAAATCAAGGGGCAGTGTTGAGGTCATCTCCACGGAGCTGTAAACTCAGA
AGTGTTTCCTGGTCATATATGGTCAATTANGGTCAAGTCTGAAATAAATNTANAANAATG
ACCTAATTTTCCAGCTTAACTCAGNAGCTAAAATCCATAACACTATCANACTTTCCTTTT
AATTTATGAGATGGAGTCTTGCTCTTGTCGCCCAGGTTGGAGTACCTCGGCCGCTCTAGA
ACTAGTG
Sequence 1894
AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAC
CACCAGGGCCCTTGCTTCTGAGCAGGAAGCAGCTGGGGAATAGGCTCTTTCTCTTAATGA
CTTCCAACATAGTTCTCTCAAACCTTACTCCTCCAGAAGGCCACCCTCACCTGGCTATGG
CTACTTCAGAAAAAACTTGGCCTCTGGTATAATAGAGCAGAATCATCACCTCACATTCTA
TTTCAAGCCAAAGTCAATATCTCAAAGGCTGGTTCTGTGATTTATTTGGCCCTTGGGAGC
TCCTACTGAAAGTGCTGAAATGTCGTACCT
Sequence 1895
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGCCCGCCCGGCNGGGTCCTTTAAAAC
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GGAGTGCTCTAATCCATTAGGGAATATAGCTCCTATATCACTGGCTACCCAAATGGACCT
CAAAAAGGCAGACAGAGCCCATCCCCAGAATATCCTTGGTTCTTGCTGGTCACAAGGACC
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GACTGTGAATAGGGGAGCGGTGAAATGAAAATACGGCCTTGAATTAGTTTCACTGTCAAC
ATATCTCATATTTATCTAGCTAGGGTATTTTAATTCTAGGGTATGTTATGTCCAGAAGAG
AGGAATGATTTT
Sequence 1896
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCTCGAGCGGCCGCCCGGGCAGGTACTC
TTTATGCACATCAGTGTGGGGCCTTAGTAACCACTGTGCAAGTTGAAACTGGGCAAAGTT
ATCTTAATAATTAATGGGAAAACATAAACTTCTTCCTGCAATCTTTAAAGACACTTGTCA
GTCAGGTGCGGTGGCTCACGCCGGTAATTCCAGCACTTTGAGAGGCCAAGGTGGGCGGAT
CACTTGAGCCCAGGGGTTTGAGAACAGTTTGGGCAGCATGACGGAACCCTGTCTCTACAA
AGACTACGAAGGGTTGGCCGGGAGTGGTGACATGTGCCTATAGTCCCG
Sequence 1897
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTCTAGC
TGATGATTCAAAAAAGAAGCCTTTTAATCTCACTCCACTGATCAGCTATGATACTTAAAT
GTTTTAGCTGTGAGCAAAATAATATGCATTCTCAAAGAGAGTATCTTCAGACTCCAGTGG
CCGAGAATCTAGAGTTAGCAATGGAAAAAATTAGTCTCGGGGCNTTCTTGTTTCTGCCCA
CAAGTTTTCAAATTAAGAACAATGTGTTTGCACTTAATGAAACAACCTCTACTGCTCTTC
AAGAGGACTCAGGATACCGATTCTCGAGGCCCCTGGCGGTCCCCTGTAAGTACCT
Sequence 1898
CCGCGGTGGCGGCCGAGGTACAGATAGAGTCTCACTATATTGCCTAGGCTGACAGAGTAT
TTTTTTCCTTAATTATTCTTTATTCTCAAATGCAGTGAACAGTCACAGTAGCCCACCATA
GGGGGTTCATTTTCAGACATTACAGTAACTAGGGGAATTTTATTAAGGAACCAGCNGCTT
AACCCNTANTNGGTANTAATTCTTCTTTTTTAAACCCAACCTCCAGAANTTNATTCAGAA
TTCATCAGTCCTTCCCNATCAGGTGGCTTGTCTTTTCTNGGTCCCATGGATCCAATGTAN
GGAATTCCACAATCACAAGTTAAGTNTTTTTAATCACTTCTTANGNNCCTNCTCCCCACT
TCTGGGGATGGGTTTCCCTCANNTAATCCTCTTTTGGTCTTTCCCAGGGGAACCCTGGAC

Table 1

CACCTTTTTNGAAAAGGAAGGTTANTTNGGGAACCAGGCCTTTTTTTTT
Sequence 1899
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATTAA
ATTTAATGAGAGGTAACCCATGCACCGGCAGAAAGTTCAAGGGGACAGAAGGGGCTTGCT
CCACTCTGGAGCCCTATCTCCTCTCACCTCCTTCCTTCTAGTTTGACATGCGATCTTGTC
TCTCTCTTTTATAAAGTGCTTCCAGGCCCNTTTTGATTAAGGATGCTGTCCTAAAATCCT
TCCTCCCGCGTACCTCGGGC
Sequence 1900
TGGTGGCGGCCGCCCGGGCAGGTACTACAGGGGCAGGCTACCGTCCCCGGCTAATTATTT
TAATTTTAATTTTTAGTAGAGATGAGGTCATGCTGTGTTGCCCAGGCTGGTCTCGAACTT
CTTGGGCTCAAGAGATCCTCCTGCCTTGGCCTCTCAGATTGCTGGGATTATAGGNGTGAG
CCACCNACACCTGGCCTATGATCTTAACTTTATTTACCACCTTTTTGACATTTGCCAAAA
ACTAAGTTTTACAAGATCTCTCACCATATCTCTGGGGATGGGAGGAGGAAGGGAAGGATA
ATGGTCTCATATTCATAATAGTATTTGCAGTGCCTATTCTCACAGTTGATAAATGACTAT
AACCTTTTCAAGAGGATGAGTGAAAGAAAGAGGGAGGCAAGAANAATGAAAAAGGAGGTA
A
Sequence 1901
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGTTGTTGTTGT
TTTAGAGAGACAGGGCCTTGCTCTTTTGCCCATGCTGGTCTCAAACTCCTGAGCTCAAGC
AGTCCTCTGCCTCAGCATCCCAAGTAGCTGGGACTACAGGCCTAATACTTTTTGTGCCTG
CTCCTCTCTTCCTGTTTCTACCCCATCATTATCTGCTCAGATCTTCTTAATCAACTACTG
CAGCAACCTGCTAAAATGTCTCTCAATCTTCTGGGATAAGTCAATCAACTGCTAAATGAA
TCTTCCCTAAATTTTACTTTTATTGAGTTCTTCTGCTCAGAAACCTATTTTTACTTCTTT
CTAAGTCCTCAGCATGGTATTTCTTTCTTCTATGTTAATTGACAGTCTGTCCTTAAATAT
GAACTGTCTATTCCTGCTCTTCCTTCCCTCAAACCCAAACTCAC
Sequence 1902
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACATTATCTAAGATGA
TACCTATAAGGCAGATAGTATTATCCCCATTTTACAGATGCAGAAATTGAGTATCAAAGT
GGTTAACTTGAATAATGTCAAGCAGCTAGTCAGTGGTGGCAGTGGAATGTGAATCCAGGA
AGTCTGACACAAAAACAAGTGGTCTTAATGCTATAACATGCTTAATGCTAAGAAAAAGTG
GACAGTATAATGCTATACTGTTCCTGAATAAATATCCAGTAAATAAGGAAGGCTAGAAGA
ACACAAAGTTTGTAACAACATGTTTTTCTAGTAGAAGTCTTCTTTGCTGACTTTCTGATT
CTCAGGTATAGCATCAATCGGTGAGGGTTGCTATATGGTAAACATTATACTGACAGGCCA
AAGCGATCAACTGTGAAAACTAGGCAAAGCCAAAGTA
Sequence 1903
CCGCGGTGGCGGCCGAGGTACAGCTTGAACAAATCCACCTTCTGTGGACCAAGCACCACC
CTGGGCATTTCTAGCATGAGCAAAATCCAAGGTCCTGGCTGGACTCCAGAGATGCTATTT
ACCTCAGAAGCATGACAATAGGAGGCAGAAGGAGCAGGCAAATCCAAGTCCTTTCTTGTA
GTTTCCTTGTTTGGGGAGGAAAAGTTGAGTTTTACTATTATGGAAAAGAAACAGGAAATA
GAGACAGACAAAGAGATATGACAATACAGTCCTGCCACCCAGATACTCATTTCCACCTAC
CATTCCATGCATTTGTTTTGAATATATAAGTATGTACCTGCCCG
Sequence 1904
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGCTTTATTTTTTCATG
AGACATAATCATGTCTTATTATAAATTTGCCTAAGCAGGGGATAATATCTGACATACATG
CTACCTGTTATTGTGTAAATTGAAAATATTCTATCTTACCAGTTGTTACAATTAAATATA
TTATACTGATAATTTATTTTTTCAGACATTGACATAATAAAGTTTTATTTGAAATATATC
TTAATCAATAAATATAAAACAGAAACCACTCTAATAGAGGACAATTGTTCTAGTCAATAC
TCATATTTGTTCTGACTATTGAGAAAAATTATGTCTGCATTTTAAAAGTTTCAAATTTTG
AAGCTTCAGATTTTAGAATAGGGATTT

Table 1

Sequence 1905
CCGCGGTGGCGGCCGAGGTACGCGGGGAGACGGCATCTGAACCTTGCCGAGTAGGAATGT
TCCAGAAGTAAGAGAGATGACTAGGGTTTCAAGAACAAGGACCAGCACCTATGAAGGCTC
TGAGGCACAGACCACTGTGACCTGTGGAGAAGTGACAGCAAAGTGAAAGGCACGTTTTGA
TTACTACCGACATTCACAGTCTGGACACGGGTGACAAATCTAAAAGATATTGCCCATTCG
TCCAACTGCCGCTGTCCTGCCAGTATATCGTCTGAGATTACCATCAGCTAAATATTGCAT
TGTCTTTGGACAATTTTCCTACATTGTGACTCCTCACTACATTTTCAATGCTTTTCTAGT
CCCAGACAAGCTACAGACTGTTAATTTACACTTGCTTTTGCCTTGCCTGAGGAAATTGAA
AATAAATT
Sequence 1906
AGGTACTTACAACTTTTCATATAGTATTGGTAGTGTTTTGAATAATTTAAAAAATCATCT
TAGGTTTGTTATTTAACTTTATTTATATAGTGCTTGTATTAATGATTTTGTGAATGTTTT
TTAAAGATGGATACCTTGATTTGGCTTGGCCTCCCAAAGTGCTGAGATTACAGGCGTGAA
CCACCGCGCCCGGCCGACTTCAGGAGATCTTTAGGCATCATTGGTTTGTGTTCTTCAGTT
AAAAATAAAAAGCCAAACTCAAGACAAAGAATACAGTTCAGTTCCAGGTTAGGAAGAGGG
AGAAGCTCAGCTTCTGAAGTAGTGCTATATTTACTGTTTACCTTGACTGTTATCTTTAGA
AGTTGATGATNATTTTAAAAATTGNGTTAACTGCTGTTTGAACTGTTAAAGTTC
Sequence 1907
CCGGGCAGGTACTGGTTTTACTGATCTTTGTGCAATTTGCTGCTCAGCAGATATTTTCAA
TGCTGATTGGTAATATGTCAGTGGATAACCAGTGGAAATGCATGTCTATTAATTACTATT
GCACATAATATTTATCTTGTTTTTATATTTTGCACAGGATTTTCAAGGTGCTGGTATATT
TCTGAGCACTGTAAAGTTTTCTTTGAGAAATAAGTGTTTATTTTTAAATTGCGTTGTCTC
ATGGGAGGGTAACATTTGTAAATATACTTCAAATTAGTGTTGTTCCCTCTGCTTTCTTTT
TCCTGACTCAGAAACAGAGTGCTTTGACTGCTCTATGTTGGGGCCATG
Sequence 1908
AGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAG
GTCAGCATCATTGGTCTCAGCTACCATTTTCCTGCAGGATGTTTATAAATAGTTCCTGGC
AAAGGAGGTTGCCGCATAGGGTCCTACAAGTAACCTAGGTGGCAGCATCTCCTCCCAGCG
TCCCCCGCGTACCTGCCCG
Sequence 1909
CCGGGCAGGTACGCGGGATGGGTTTAGACTAAAGTATTTTCTTCATAAATTGAAAGAGAA
ACACACTAGGAATTCAGAAGATTTTAATTAAAGTTGTTCAAAAAATTTAATGGGAATTTT
AAAGGCTGGCTCACTAAGTAGTTTTGATAATGAATTTAATTTATAGAAGAAAGTTCTTGG
CAAATTTGGTAATGCCAAAAAGAGCCTACATATGCACAATGTATATTTTCATGGAAGCAT
TATTATTAAGTGTCCTGCTTTTACTGGTTGACATACGTTAGTTCATTTCAGCTTCATTCA
AATATGTAGATTAAACCTAACACCTATAAAATGGTAACAATT
Sequence 1910
CCGGGCAGGTACCATACACCATGGAAGTTAGCCTTCCACCTCAGGAGAAAGCAAGCTGCT
CTCATAAGCCTCTCACCAACTACCCAGTAGTCTTTGCCTCCAAACTGAACAACAGGAAAA
AGTGCCATAGTTTTTAATTAAGCTGTTTTAAAAGTCCATGTTCCGGGAGAAAACAAAAAA
AAAAAAAAAAAAAAAAAAANGTACCT
Sequence 1911
TCAGCATTCTAAATCAAACGCAAACAGCAGAATCATATGGCATAGACACTTAGCANATCC
AATGCCTTCCAGGCATCTGTTTCCTGTTGATGAAATCCTCCCTATGGAGAGCAAACTGGN
TCATATCTTCAGATAGTGTCATTCAACCCCTTGGCAGCTTTCTGGGCTACTAAATATCAC
ACCGTCTGGNGGGACATTTNACCCAAGTAGGCAAATGCATGACAGAACTCACTGGATCAA
TATCTCAAAATGCTGGGAAGAAAAAAACGGTAACCAGAAATTCTACACAGAGTGAAACTA
C
Sequence 1912

Table 1

AGGTACCATACTTTGTTTTTATTCTTGAGAGGAAACTTCGATCATTTAAAGCAGATATTT
GCCTTCATCCCCTACCCCCACCCAATAAAACAAACCTGGAAATGCCCATTTACATATTTT
AGCTTAATCACGGTCAACTGTCTTCTATCGCCACTTCACTGCTCACAAAATACACATATT
TAAAAGTGAAAATACTGAAATATGTCTTCACAATACAGCTAATACCACCAGTAGAAAATT
CACGTCACCATGTTCAGTAGACAAACGTGAGAAGCAATGTGGTGTCAGATTGGAAACTTG
GGAGAGATTCTCAGAAATAAAGTAACTTCAATAGGTTGCTTTTTGCATAGTGCAAAATTA
AACTTCACTTTATTTAGTGGAAGTGACCCAATTCAATCTTATCTGGGGTCAACACAGCTG
ATTTCATTTGTGTTTGACCACTGCACATTTTGGCATCCAAAAAGTTAAGGAGAGGAAGTC
AAGGGTATTATGGAGAACTACGAAAGACAGATGCCTCCAATAAAAGACTTTTTTTGGTGG
TATTTGGTTTTGGGTTTGGGNGGATGATTTGGATCCCAAAAGAGAAACCACTTAAGATTT
GGGAATTCCCCCCCAAAATTTCTACCTTNAGAAAGACCCAACAATTGTTGNTTNTGGNGA
CAGCTTAATCACTGGAAGACTTTTGCATTNTTTTTTATTAANAGAGAGGATTGGGTNGAT
TTAAGATCCTCTTNTNCCTGCAGGTNTCCATTTAAATTNCACCNCAGATAATNNGGAAAA
NNNTCCANATNATGGCATCCTATTTGCTNGCTTTTTTCCAATTGGAAATTNGATTTNAAA
NAAAAAAATNNNNNNAGNTCTTTTTTTTTTT

Sequence 1913

CGCGGTGGGCGGCCCGCCCGGGCAGGTACTATTAAAATTTAATGAGAGGTAACCCATGCA
CCGGCAGGAAGTTCAAGGGGACAGAAGGGGCTTGCTCCACTCTGGAGCCCTATCTCCTCT
CACCTCCTTCCTTCTAGTTTGACATGCGATCTTGTCTCTCTCTTTTATAAAGTGCTTCCA
GGCCCTTTTGATTAGGATGCTGTCCTAAATCCTTCCTCCCACGTACCT

Sequence 1914

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATGATTAATCTTCCCTTATCCACAAAC
TTAACTGTGGAGAAACAGGAGAAAGTGTGTGCCTAGAAGCTGGATTCAGGGACCCATGGT
TACCCACTTCTACTTATGATTCCGTCATTACTGTTGTTTTAGGAAAATAAACAGATCTTG
ATTCTTTCATAAAAGTCGATTCTTCAACAAGCAAATGGGAAAATCGGCAGGCCCAGATAT
GTGTGTATAGCAGCTACTGGTTGGAAATTTGGACACAAAAGTCTTTATCTACCCAGCCTG
TGAGCCACAAATCTGGACTGAGTATAAAAAAGAATAAAACTAAATACCACAATGTTCTCA
CTTATAAGTGGGAACTAAACATTTGAGTATGCATGTACCTCGGCCGCTCTAGAAC

Sequence 1915

ATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGAC
TGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTT
CTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCAC
AGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCA
GCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGAT
GTCCCTGGACAAGATTTTACTCCCATAACCCAGGCAGAAGTACCT

Sequence 1916

CGCCCGGGCAGGTACTTGAAGCTGTCATGGATCAGGTCATCTAGGGCAAGCAGGTAGAGT
GAGAAAAACTCTGGAGAGCTTCAGGACTTAAAATGTGATCAGAAAAAAGGATCCTTATAG
AAGAGACTGAGAGGTAGGAAGGGAACAGAAGTGATATTGCAGAGGCCTGAGGCAGACACT
GTTAAAGAGGGAGGCACCTGGACACTTTTGCTGTAGACAAGTAGCCCATCTAATCCTAAA
GAGCCCCTTTGATATGGCCACTTAATGACGTATGAAATACTTCAAAAATGATTTTAAAAG
TGTTTAAAGTAATGGGCTTCTGTGTCATTTCCATAATATTATTCTGGGTGCCTGCCATGC
GCAAGACACTAACATAGGTGTTGGATGTTTCAAACAAATAACATTTATTTGCAAACTCTC
GTAACTGATACTTTTCTTCAAAANAAAANATNNNNNNNANNAGGTCCCTCGGC

Sequence 1917

GCTCCCCGCGGTGGCGGCCGNCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGAGAC
GAGGTCTTGCTATGTTGTTCAGGCTAGACTTGGACTCCCAGCCTCAAGCAGTCCTACTGC
TTCAGCCTTCCAAGTAGCTGGAACCACAGGCACACACCACTATAACCAGTTTATTTTACA
TTGTTCTTGTAATTCTGGTATCAGTGATTCTTATAACAATATGCTCTCAATTTATTTTAA

Table 1

GCATGTTGAGACCTTAATGATAACTATTCAGAAACCATACTAAACATTTGATCTTGAAAT
CTTCCATCGTTTTCCATCCTCTGCTTATGCCTCAGTTATTCCATTCGCATGATATGGGCA
CTTAATTTAGCCAACTCACTGACCCATTTC
Sequence 1918
CCGGGCAGGTACTGTGATATCCACATATTTTTGAGAAAAATTCCCAAGCCAGGCGAATGT
GGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAATAATGGTTAGTAAGATGG
TGTTAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACAGCAGCTAATGATTTGGTATT
GATAGTAGAGCCAGGAGAAATATTCCTTCACACGCCTCAAATCCATGGTTGGCTCCTTCA
AGCTGCAGTAAGTTTGTCCTAAGAAAGTCCAGGTCTGGTTCTTCAGCCTTGCTCCTTCGC
GAAATGATCCTGTGTGGGTTAAGTTCTCCTCTCTGGGTTGCTGTTTCCTCATCTCCCAGT
TGGGGTGTATCTTCCCTGCGGCTTAGGTGAAGCGCCCGAGGCTT
Sequence 1919
AGGTACAAGCATATAATGCCAACTGGTAAAGTCAGAACTCCAGATGACAAGGTACAGCAT
GTAATCTTTTGCAGTCTATTGACAGCAATCTAAATAAAAGCAAAGGAAGATGCTTCCAGT
ACTACAAACTTTATGGGAACTTAGGGTCTCTCAAAGCCACACTGTTTTGGGTCACTAGCA
GGAGGTACAGTATATTAAAGCAAGCAGCTCANCCTCTCACTAGTGGTGAGATGTATGAAA
ATCCTGGCAATGCCAGGGGGAAAAGAATCTATGAGTCTTCCCTTCGGTCATCTCTCCTAT
TTCTTGCATTAGTTTTTTCAGGGTTAAATACACATCTCACAAGAAGAAGCTAGCTATATA
TGGGCTGGGTTGGTCTTCAATNGAATCTNCAAATGTATCA
Sequence 1920
CCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGTTCAGCTTTGACATTTATTTT
CTCATATCAACCCTTTTTACACGTGAAACACAATCTCGCTCTTGAAGTCTTAACTGCATG
ATCTGTGAAACCTGTATTTATATTTTCTTCAGTGTATTCTTGTCGTGTGTGTGTCCTAAA
CAAACCAAAAGAAAACTTTCCAAATCTAAAGTATTCATTCTCCAATTGGAGCAAGAGGAG
TCAGTTAGATACTATCACGGCATTCATTTGTGGCTGGCTTGTCATATTTACTTATGATTG
ATAATAAATCTATTTTGCTTTTTAGAGCCTCCCGAGAAGCCATCTGCCTTCGAGGTATTT
AGTTTCATGATTTTCATTTTGAATGACTTATTAACTATGTATTTTGGNGAAGTATACATT

0

Sequence 1921
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTCTGTTGT
CTTCATCATGAGATCAGAAAACTCTATGCTGCTCCCTAACTATGTGACCTTGAGCAAGTC
TCTTAAAGGAGAACTTCAGTTTCTGTATTTGGAGAAGAAAGAAGATCATGGTAGATGATC
CTCTTGAATTGGCTTCAGGCCTCTAAAATTCTGTAGTTTGGTAAAAATGCCTAATGACCA
AATGGAGGCAAGATCTCGTTACCAAGATCATGGTGGCTTTGGAAGTGACAGAGATGGCTG
AGACCAGGAGGCTGAAATGAAATTAAAGTCCTATGATGTTGCTTTAAGTTAATGCTATCT
AAGAAAAGGTGCTGGTAGAGGAAGTGGGGCCCCAAACTTGGCTTCATAGTGATTGGAGTT
TCCAAATCAATGGAATAGG
Sequence 1922
AGGTACGTGAAACTGCATCTCTCACTTTTTCTCTCTCTTCGGGCAGTGCTAGGAAGATTA
CTCACAAAAAGTCAAATCACATCCCCCATTCTAATGTTGGTATTTCTGGGGAAGCCTTAT
GGAAAGCTGCGTTTTTTCATGGGGGAACACTTTTGTGCCATGGTTTTACAAAGCTAAAGA
ATTTCAATAGTCAAACTGTTGCCATAAAAAAATCAAACTTAGGAATAGAACTAAACATGT
TATTAACAGAATAGGCTTGAGAGAGCAAGAGAATTCTTTTGGAGTAAAGTTATCCAAAGT
CTATGTGTTCTCCTTTGACACATAAATCTACTATCGACCTAGTCTTGGACTTTTTTTTTG
GACAGAAATTGGGTAAGTTTTGCAAAAGGACAGGCACAAAGCC
Sequence 1923
ACTATAGGGCGAATTGGAGCTCACCGCGGTGGTGGCGCGCCAGCGCCGCCTCGATGCGCG
GGATCTTGCAAATGTCGGTGCCGATGCCGTAGATCATGGGCTAGTCCTATTCCTTATGCT
TTGTTGCCCAGGCGCGCAGCCACCATGATGGCCTTCATTTCGCGCACGGCGTTTTCCCAG

Table 1

CCCGACAAACACCGCATGCGCGACGATGGCGTGGCCGATGTTCAGCTCAGTAATATCGGG
AATGGCGGCGATCGCCTGCACGTTGGTGTAATGCAAGCCGTGGCCCGCATTGACCTTCAA
GCCACGGCCCACGCCGAACAGTACGCCTGCCTTGATGCGCTCCAGCTCCGCAACTGCTCG
GCGCCTGCCGTATCGGCGTAGCGGCCCGTGTGCAACTCGATCACGGGCGCACCGAGTTCG
GCAAGCGGCGGCGATCTTGTTGCTCGTCGGCATCGATGAACAGGCTCACGCGGATGCCCT
CGCCCTGCA
Sequence 1924
AGGTACAATGGGAACAAGGAGATAAGCAGTGAAAGGCCAAGGGAATGTCTGGAGTTAGGA
CTTCAGGTGATTCACAACTTGGCTGCCACTCACCCGAGACTGCCCAAGCCCAGATTTCTT
CCTTCTATAAGAATATTGATTCTTGCAAATAAGATGAACCTAAATGTGGTCCAGGAGTCA
GCATCTTCTACATGGTACCTGCCCG
Sequence 1925
TCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGTTCAAAT
AGTCAGCAGCTCATCATAATCAATGAGCGAGGACATAAAGTAGGAAAAATGCATCACCAT
GGTGAGCAAGGAAAGCAAGTTATTGGAGGCACATGTTAACACATAAAATATAAAATTAAT
ATGATCACACTGGAAAGGCTTGCCTGAGCCCACAGTTTGAATGCCTACAATAAGATGAGA
TGCACAACAAAAAGCAAGAGAACCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATC
AGTGGGGACCCAAATGCTTATGTGGACTCACCAGGTATCGAATTAGACATGAATAGGAGT
GTTTGTTGTGATCCAAGGAAACTATATAATCAAAATGAATACAATGAAACTTTAAAAATA
ATTGTAAGGATCTTTACACCAGCCCA
Sequence 1926
CCGCGGTGGCGGCCCGAGGGTACGCGGGGAATCTTACTCCCTCGTAGAACAGGCGATATC
TTCACCATGCGCACAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCCACGAAGCCA
GAAAACTAATAAATGAACAACTTGGGTGAAATGTCCCACCAGACGGTGTGATATTTAGTA
GCCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATGAACCAGTTTGCTCT
CCATAGGGAGGATTTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGATTTGCTAAGT
GTCTATGCCATATGATTCTGCTGTTTGCGTTTGATTTAGAATGCTGAGCTGACTCAAAGT
CAAACTAAAAAAAAAAATGAAATAAAATAAAAATCTTTATTTCCAATGAGCTAATGAGGA
AAAAGGGGATGATGAAAAAACAGGGAGTGGGAGCAATTTGGAAATGGAAAGAATGCTGAA
TACCTACATGATGCCTAATTCAGAAGAACATTCTGGTATGTAGGGACATTAT
Sequence 1927
CAGGTACTTTTNTTTTTTTTANNTNNTTTTANTTCGCAATACCAGCTTTNACCCTGNCCT
CTGCACTGCTTAGCCTNGGCTCTGCTGAGTNGTGCAACACATTCTGANAGATGCCATACA
ATGCTCCAGGCAAACTTATAGAAAAACAGGAATGAGTGATTTTATACGGGATGTGTTTCA
GCTGTCCAATNCAAAATAAATCACGTCCAGGTGCATTCTTTCCTAATTTGTGACCCAAAC
TGCTTGCACTTTATACATTAATGAATTATTTTTTTAAAAGAAATTAGCTCTATCATGAAG
ACAGGGCTATCTAACCCTTTGGTGGTCTTTNTCCCTTAAAAAGCAATTGTTCCATTTTAT
AGGTGTTAGGTTTAATCTACATATTTGGAATGAAGCTNAAATGAACTAACNTATGTNAAC
CAGTAAAAGCAGGACACTTAATANTAATGCTTCCCTGAAAATNTACATTGNGCATATGTA
GGCTCTTTTTGGCATTACCAAATTTTCCAAGAACCTTTTTTGTTTTAAATTAA
Sequence 1928
TCACTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAGGGAACTATTGG
AGCACCTAAGAGGAGCACCTACCTTGAATTTAGGGGTTAGCAGAGGCATCCTGAAAAAAG
TCAAAGCTAAGCCACAATCTATAAGCAGTTTAGGAATTAGCAGAACGTGCATGGTGAGGA
GATGCCAAAGGCAAGAAGAGAAGAGTATTCCAAACAGGAGGGATTCCAAAGAGAGAAGAG
TATCCCAAACAACATTTGCACAAACCTGATGGGGAGAGAGAATGTGGGGTGGGGATGGAT
GATGAGACTGAAGAAGAANGCCAGGTCTAGATAATCA
Sequence 1929
AGGTACCATGATTAGTTAAATATAAGACTCCGTAATTTTTACAATTTTAACAATAATTTT

Table 1

ATTTCTTCAAGCTTGTTAGTTTGGGATTGTATTAAAACTCAGTGTGTGACTTAGAAAATG
ATAATGCTGCTTTATGGAAAATGGATTATAGGTGGGTAAGACTTCATTGCAAAAATTGTG
TAATACCATCAGTGTTAGGAACCCAGTTGAAGTCTAGAAGACAGATGTTAGTATCTTAGA
CTAGGTTGGTATTTGAATAGATATTGGTAATATCAGTAGAATTTAATAATACATTAGAAA
GAAAGAAATCAGAGAAGATCTTTTATTTCACTTGATACTTGNGGTGGTACTTTCAATGAG
ATAAGAAGGGCAGGCCAAGGAGAAAGTTCAGGGGCAGGGGATGAGAAAAAAACAAGAATT
TTATGTTGGACATGCTAAGTTAAACACCTGCTTAACTCANATTGGCTTCTGTGGAAGCAG
AGGCTGACATGAGGGTGCTTATGAAAATGCTTTTTTGAGGAAGCCATTGCAGGAGGGAAT
CTCTTAGGAAGCCAGGGGAAGAAAGGAAAGAGAA

Sequence 1930
AGGTACTTTTCCATATTTCCACATACTACCAAGGATTTTCAAGTGTAGGAGTAATTCAAT
CAGACCCTTTCTTTCATATGAGAATTCTCAAAAGAGTAGAATAAATGGAACACAGAAAGA
AAAGACTTTAAGCAAGGGGCTTCTTGGAAGCCACTGCAGCAGTCCAGGCAAGTGATGCTG
AAGGTCTGCAACAGAACAGGGGCCCGAGAGTGGAGAAGAGTGGGTAAACTATCATATTAA
AGAGGCCAAACTCAGACTGGGGGCAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGG
CTTAGGCAGGCGGATCATGAGGTCAGGAGTTTGAGACCAACCTGACCAACATGGTGAAAC
CCCATCTCTACCAAAAATACAAAAAATTAGCCAGGTGTGGTGGTGCGCACCTGTAATCCC
AGCTACTCAGGAGGCTGAGGCAGGAGAATCCCTTGAACCTGGGAAGCAGAGGTTGCAGTA
AGCTGAGATGGTGCCACTGCACTCCAGCGTGGGTGACAGAGAGAGACTCTGTCTCAAAAA
AAAAAAAAAGTACCTGCCCGGGCGGCCGCTCTAGAACTAnnnnnnnnnnnnnnnnnnnn
nnnnnnATATCAAGCTTATCGATCCGCGACCTCGANGGGGGGCCCCGGTACCCACTTTTG

0

Sequence 1931
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAGGTGAAGTTTCACTTTGTCACCC
AGGCTCAGTCTCAAACAAACAAAAAAAAAAATTGGGGGATCTTTATTTCATGCTTTCTCT
CATTAAGAAAAGAGAGGACAATAAAGTGTTAGAAGATAATAAAGCACAGAAGTCTAGCCA
GTGTCTTTGGAAAATGAAACGGCTGTGTGAATTTTTTATCTTTTGGCACCTCTTTTAAAA
ACTCCACTTAATGACCTACCTGCATTACTGAAGTGTCTCTTGTTGGGGTGATTGTAGTTA
TNTCTTGGGTGTCCATGCATCTGTGGGCCATGGGAGGCAGGCAAATGAGGCTTCTGAGGG
TNAAGGTTGTGTNAGGNATGGGACTGAGATATCAGANAGTCCCGGCNGGAACCTGAGGCC
TTNGGACCAAATGGTTTNTTACCCCCAANNCANGNCGNNTNTCTTNNTTTTGCTCCNAAA
GAGGNAAAAGGAAAACCAAANGAGCTTAAAGANCCCAGGCNTTAAATTCCCCCAGAAAAA
GAAAAAAAGGNTTTNANCCTCTAAACNGCTNCTTTTTGGCCNTTNTTAA

Sequence 1932
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTCTCATAGGGAATTTTTTTTTAATTTTT
AAATTTTAATTATTTAAGAGACAGGGTCTCACTCTGTCACCCAAGCTGGAGTGCAGTGGT
GTGATCATGGCTCACTGCAGCCTCAAACTCTTGGGCTAATGTGATCCTCCCACCTCAGCC
TCCCAAAGTGCTGGGATTACAAGCATGAGCCACCACACCCGGCCATCCTAGATGATTTTT
TAAACATCACTTTTCTCCTGGCAGAATTTTCTGACTCTGTAGTTCTTGTTAACTTCCAGA
GAAAGCCCTGAGTAAGCCAGACCCTAATTACAAACATGCCTCAGTGGATGAGGCTACAAT
TTGAGTCCAAACTGCTCAAGGTTCACACTGACAAAGTCTCACACCGTAAACCTGAAACAT
CATGTTACAGTCTGAGGCCTGCTCCGAGCTGGGTAAGAAAGGCCTCGTGAATGCAGCCCC
CTGGGCAGATGAGGTTTGGGCCTTCACCCCTTTGGGACTGCCTCCTCATTGCTCCTTGGG
AAGCAGCCGCGCTTGCTGCCTGTGTCTTTGGGAAAGTGAAAG

Sequence 1933
AGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAG
GTCAGCATCATTGGTCTCAGCTACCATTTTCCTGCAGGATGTTTATAAATAGTTCCTGGC
AAAGGAGGTTGCCGTATAGGGTCCTACAAGTAACCTAGGTGGCAGCATCTCCTCCCAGCG
TCAGGACTAAGCACACAAGTTCTTCCTTCCATCTACCCCCGCGTACCTGCCCG

Table 1

Sequence 1934
CCGGGCAGGTACCTTCACAGCTGCACCACACCAGTTCTGGGCACATGGACAACAGATCAA
GCTCCCCCATCATCACATAAGTTAGGCACCAAAGAGTTAGCAAGGGTATTCAGTTCCCAC
TTAATTGATTTGCATATCATGCAGGCTCTGATTTCAGTACCT
Sequence 1935
GANATGCTGCCACCTAGGTTACTNGTAGGACCCTATACGGCAACCTCNTTTGCCAGGAAC
TATNTATAAACATCCTGCANGAAAATGCAGNGAAGTNGAANAGACAGGGATATCCCATAA
GGTTATGCANGAACATCAAGAGAAGATGAGAGGTCANAGATGGGAAGAAACAAGAACTTT
GACATGCTTGGTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTNAGAAT
ACANATTTNCCACCTTGCCCAACAGTAGAAAAACATAANAAGANAAAAACATTAAAAAAT
GACAAGGAAGTTAAT
Sequence 1936
CCGGGCAGGTACCCTTCACTCTTTAGGAGAAGGTTTGAAAAAAAACTGTGTTTCCTGTTG
AAGGCCAGTGATACCTGGCAGCTTACAGTTAGAAAACTCTATAACTTTATTATTTTCATT
TGCACTTAAAACTGCTATGAGTTTTTTAATGCAAAAAATAGTGATTGAGAAAGAAAAAAG
TGAACATATTTATATTCTTCCCCCTCAGAGAGAAACGCTGTTAACATTTTGTGTATTTCG
GTCCAGGTTCTTTTCTGTGTGTGTAAGCACACATATGTGTTTATATTGTATAAAATAAGA
GATTCATGCTGGACATACATTGTTTGTAACTTCCTTCCTTTCCTTCCTTTCTTTCTTTCC
TGAGCTAGGGTCTCGCTCTGTCACCCAGGCTAGAGTGCAGTGGTGGGATCTCAGCTCACT
GCAACCTCCGCTGTCTGGGCTCAAGCGATCCTCCCACCCAAGCCTNCCAAGTAGCTGGGA
CCACAGGCACATGCCAGGATGCCTGGCTAATTTTTGTTATTTTTTGANAGACAAAGTCTT
ACTATGTTGCCCACNTTGGTCTNNAACTCCTGAGCTCAAGCNATCTACTCACCTTGGC
Sequence 1937
CCGGGCAGGTACTCCATGCCATGCTTGTTTCTCAGTCTTGGTTGTGTTAGCCCTCTCCCT
GCTCATGCCCCAGTTCCGTGAGCAGCAGCTTGAGTTTCCTTAATGCCTGGGATTGGCAAC
CCTGGTAACAAGGACCATGAACACTCTATTAAGAGCTAGGATTAACAATGGCATCTTGCT
ATAGCTGCTTAGGCTTCAGGAAGGGTGTGGAACTAAAAGCATTTTCCCTCCCTTGAGCAG
TTCCTTGTCTCAGTCCCCTGACTGCTCCCTATGCTAGATTCAGGGATTGAGAGGGTCAAA
ATGCTCTCCCAAGATCTAGATTGTATGATTCCCCAGTGAGAAAATGGACCACAGAAAAGC
CATTGCTTACTTTCTCCTGTATTATAGAGTCACTCCTGATTTCCAGCTGGTCTTGGTCAC
ACAGGCTGGCTGTTTTTCTTTTCCTTTCTAGTTT
Sequence 1938
GATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGG
TTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGC
AGGAAAATGCAGTGAAANTATAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATCA
AGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTTT
GAAAAAAANAAAAAAAANANAATAAAANGTTCCTTNGGCCGCTNTANAACTAGTNGGATC
CCCCGGNG
Sequence 1939
CCGCGGTGGCGGCCGAGGTACGCGGGGACAATGAAATCAATACTCAGAGAAGGCAGATAA
TTCTCCACGAAGCCAGAAAACTAATAAATGAACAACTTGGGCGAAATGTCCCACCAGACG
GTGTGATATTTAGTAGCCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATAT
GAACCAGTTTGCTCTCCATAGGGAGGATTTCATCAACAGGAAACAGATGCCTGGAAGGCA
TTGGATTTGCTAAGTGTCTATGCCATATGATTCTGCTGTTTGCGTTTGATTTAGAATGCT
GAGCTGACTCAAAGTCAAACTGTAAGTACCTGCCCG
Sequence 1940
AGGTACGCGGGGAGCTAATTTCTTTTTAAAAAATAATTCATTAATGTATAAAGTGCAAGC
AGTTTGGGTCACAAATTAGGAAAGAATGCACCTGGACGTGATTTATTTTGAATTGGACAG
CTGAAACACATCCCGTATAAAATCACTCATTCCTGTTTTTCTATAAGTTTGCCTGGAGCA

Table 1

TTGTATGGCATCTCTCACAATGTGTTTGCACAACTCAGCAGAGCCAAGGCTAAGCAGTGC
ANAGGACAGGGTGA
Sequence 1941
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGCCCTGTGGCCCCCCATCTGAC
ATACCACCAGAGATCTGGTTATCACCTGGCCCATTGACTACCACAGCCAGCCTTGCTTGA
CATGCACCACCAGGGTCCCTGAGGACAGGTCTGCCCAATTAAGCTCCACCCTACCACAGT
GAAAAACAAAAAGAAAGAAAGAAAGGAACAAAGGATATTCAACACAACCAGAAATCAATA
AATAAAATGACAGGAATAAGCCTTCACATATCAATAATAACCTTCAATGTAAATGGATTA
AAGTTTCCACTTAGAAGATAGAGACTGGCTTGAATAGATTTTAAAAATGACCTAATTACA
TCCTGCATACAAGAAACTCATGAGGGAATTCAAAGGAATT
Sequence 1942
CCGGGCAGGTACTTGCAAGAAACCTCAGGACTTGAGTAACAGCAACATGGTAAGTTTTCT
AAGTTTTCTTTTCGTCTCCCATATACGCTGGGCTGNGCTGGAATCACCAACAGGCACAGA
AAAAATGACAACAAAACANCAACANAACCCCCAAGAATATCCTGTTCTCTTTGGCCAAAG
TCAGGAAAGGGGAGCCCCAACAGAGACCCAGTAGGAAGCTCTAGCCCCTGTTTTGTACCT
CGGCC
Sequence 1943
AGGTACAACTTGACAGTTTATAAAAATGCTAACCTATATCAACATTTTTCCCCACCAAAG
TGTTCNNAAGGGCAANGGTAAGNGAATACATGTTTNCNTGCTTGTGTCAGGGGCACACAG
CAAGGGAAGGCANAAATGGGCATGACCTAGTATTNAGAATCCCCAANAAGCCCTTTCATA
ATTCCCTTAATAAANGAACTTTGNGNGACCTTGCATTNNTTTAAANANATNAAATTAATT
TGGGTTCATNTTTTCTTTAATNTCTNTGCGAATTAAACTATATAAAGTAAATTGGGGAAA
ACCNCANAAATTGCNCATGNGNCTTTGGTTACTTTGNAATCTTCCTTTTTTGGACACCCC
AAGNTNTGGCCTTCCTTTTCTNCCTNTTAANTTGATNCCNTTAAAACCAATCCTTGGNCC
CCTTNCNGGTTTCTTTTAAATTGGNAAAATTTATAATCNTTCNATGGNNACCAATTTTAA
CCAATNTATGNAANATAGGNAACCTNAATTTTGGGTTNTTTGGTNTTNCAAGTNTTTTCA
AAAACNATCTTTTCCAAAATTTTCCCCAATT
Sequence 1944
CCGGGCAGGTACTTATTTTTATATTAATGTCAGACTTCAGGATTTATTTTAGCCTTCCTT
TTTGAGAAGCTTTCTAAGCCCTCAGCATTAAGCAGCATTTTTCCTCATCACACACGGATC
TGAGCAGGTGACCGCGGCTGGGATAGGTGCTGTTTGTGTTAGTGTGCAGGTGGGCTGGCC
AGCCATTGGGTGTGTGTTTTTCCTAGAGTAAGAAGCACTCCAGGCTGAGATGAGAGCTGT
TGAAATGAGTAACATTTCCGTCTCCTGTGATACGCGCTGCTGTTGCNTTCTTTCAAA
Sequence 1945
NCTTTNCAGTCGGNAAAACCTNGTTNGANGCCAAGCTNGCATTTAATGAAATTCCGGCCC
AACGCCGCCGGGGNGGAGAAGGGCCGGTTTTTNGNCGTTATNTTGGGGGGCGGCNTTCTT
TTCCCGCCTTTCNCCTNCGGCNTNCAACTTTGNAACCTTCGGTCTNGNAGGCCTANCGGG
TTNCAGNTTCNNGGCCTTGNCCGGGNCNGTANNCCGNGGTTATTTCNAGGTCTTTCCATC
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ATTCCAANGGGGGGGGGAATTAAAACCGGNCCAAGGGGNAAAAAGNAAAACNAATTTGG
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AACNCCCGGTTAAAAAAAAAAAAGG
Sequence 1946
AGGTACCTTTGTTCTTCCTCCTCCTCCATCCTCCCAGTGCCTGTGACTGGAATGGTGAAT
GGCACCGCTGGATGGGTTTCTGCAGATGTGGAACAGCCAGGAAGCCAGCCCTGTCCAAAT
TGAAGTGCTTTCTGTAGGACCAAGAAGGGTCAATTACTATTAGTGGTAGACTTCACAAGC
CAGGCGGTAGGAAGGCAGGGAGAGCCCTATGAGAACTGAGACCGACTCACCTGGCATGTG
CTGGATCCATGCATAAAAGCTACTGTATCAATGTTTCAGTTGAGTGAATGAAAAAAAAAA
ANANNNNAANANNNGGTCCCTGCCCG

Table 1

Sequence 1947
TACTATAGGGCGAATTNNAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGAGA
CAGCATGCAGGGTGTGTTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTAAAAAT
GTGATGTTGGTATATCATCCTGATAGAAAACACTGCTTTCCAAATCCTAGTCACTGGATG
GGAGGAAAGTAAGAACAGATTCTGCCAACCACTACTGATTTGTTATAATTCTCCCCATTG
AAATTGGGACAAAATTTGTAACATGCTACTCTGAAATTGATCACATTCTCAATTCTGTCA
ATAGCAGAGAATTTAGCCTCAACACCACCAATTCAAAATAGTTTAGGTCTTGCCCCTGCC
TGATTATGTAACAGAAAAGCATAAAGTTTGCAGGGTGGAGCGGGAGGATTTTTCTAGGAA
ACTTCCTTCTCTTCCATTAACGTGTG
Sequence 1948
TAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCCGCCCGGGCAGGTACTAATTTG
TAAAATTAAGAAGTTGTAGAACTGTGAACATCAACTATTGCATTATAGGGAAAAAGTTAA
TTTAAAAGAATAGGACAAGGTAAACTTTTTAAAAAATTTTGCGAGTGGAATATAAGACAA
AAAAGCATTTCCAGAAGTTTGACATTCACTAGAAGCTCTCTCTGTGCCTCTCTTTTCCAC
CATTCATACTGTTAAAAAAAGACAATATTGAAATATTACCATCAGTATTATTGACTGTTG
AAGACTGGGCCCTTGCTGTAAGTCAGGCACCATGCTGGATGCAGTAAATGTATGTCCTAT
TTCAAAGGTAAAGCCACTGCATCTTGCACACACAGTTTGGGTTCAAAAGCTTTAAAGAGT
AACAAGAAGGTTTGCCCAAGCTTAGTCACATCACTGAGCAAAATCCACCGGATAGAATGA
GGTTGAGATCTCTGAGAAAGCAAAATACTAATTGACAGTAGCAGTTGGCGGGTCATGTTT
TT
Sequence 1949
GCGGCCGAGGTACTGATCTAACCAAGATATTTTGTTTTTCTCACCCACCAGTNACTTTCT
CAGTCCTTTCTGTATCCCTTGCAATTTGAACAAAGCTTGGTGAATAGTGTGCACACAAAA
AGCACACTAGGTGAAAGACAGATACATAAAAAGGGTAAAGNCAGGATATTTTAACAANCC
TATCAAGCTCTAAATATAAGCCTCCTTGGTAGTTTTCTCTTTAACCCTCTCTCCACTGTT
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CANGGTTAAGCCTTCGGTGCTTTAATCCAGAGGAAAATTACTTATTTTAAAAAGCAGTGA
AAAACACCGCATTCCTTTGGCACAGG
Sequence 1950
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCAGTGGTAA
CAACGCAAGACTTTTTTTTTTTTTTTTTTTTTTTTACTGCAACAACCTAACAGGAAAACTAA
TCAGAGATCATGAGGAGAGTGGTATATCAGTCAGGGACTAATCAGGAACATAATCCACTT
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CAGGGGAAGCTGGAGCTAGGGTGTACCTGCCCG
Sequence 1951
ATTTAGGGCGAATTGGAGCTCNTCGCGGTGGCGGCCCAGCACATAATGCAGTATACGCCC
AATTAAATTTGAGACTCACAGAGTTTATTAGTGGCCACCTTGTCCAACCTCTCCTATTAG
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CAGTGCTTTAGGGAACAATTTTAATGGAATTTAAAGACAGAATAATTCAGAACTGGATAC
ATAGTAGATACCAACTGCACCTTGTGGGAATAATTCTCTGGATAGTATCTGGCAGTCTTC
AGATACTTTGCTGTTATCCTGGCTAAACCACATAAGTTGTTGTGTGTTGGTTCACAATCT
GATCTTGCAAGATGTAAGTTAGAATCTTGACAGTTTTTTTTG
Sequence 1952
AGGTACGCAACATGACATTGGCTGGTGTAAAGATCTTACAATTATTTTTAAAGTTTCATT
GTATTCATTTGATTATATAGTTTCTTGCCATCACAACAAACACTCCTATTCATGTCTAAT
TCGATACCTGGTGAGTCCACATAAGCATTTGGGTCCCCACTGATGAAGAGCACCATGGCC

Table 1

AGGTCACCCACTTGATCAGGTTCTCTTGCTTTTTGTTGTGCATCTCATCTTATTGTAGGC
ATTCAAACTGTGGGCTCAGGCAAGCCTTTCCAGTGTGATCATATTAATTTTATATTTTAT
GTGTTAACATGTGCCTCCAATAACTTGCTTTCCTTGCTCACCATGGTGATGCATTTTTCC
TACTTTATGTCCTCGCTCATTGATTATGATGAGCTGCTGACTATTTGAACCTGGTA
Sequence 1953
ATCACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCTTCACGGCCGAAGCC
CGATTCGCGGTAACCGCCGAAGCCGCAAGCCGCGTCGAACTGATTGGCGCTGTTGATCCA
CACCACGCCAGCCTTGATGGCGGGAGCGATGTCCAGCGCGAGGCTGATCGACTCGGTCCA
CACGCTGGCGGCCAGGCCGTACACCGTGTTGTTCGCCAGCTGCACCGCTTCAGGCGGCGT
GCGGAAGCTCATGGCCACCAGCACGGGGCCGAAGATTTCAGCCTGTGCCACGGCGGCCGA
GGTCGACGCGCCCGTGATCAGGGTCGGCGGGAACCACGAGCCGTCAGCCGGCAGTTCGCA
CGCCGGCTGCCATACGTCGCAACCTTCGGCACGGGCAGAGTCGACCAGCGCGGCGATGCG
CTGGCGCTGCACGGGGTCAACCA
Sequence 1954
CCGGGCAGGTACTTGGTTTTNTTTTTTTNTTTTTCCTTTTGGCTTTGACTTTGAGTCAGC
TCAGCATTCTAAATCAAACGCAAACAGCAGAATCATATGGCATAGACACTTAGCAAATCC
AATGCCTTCCAGGCATCTGTTTCCTGTTGATGAAATCCTCCCTATGGAGAGCAAACTGGT
TCATATCTTCAGATAGTGTCATTCAACCCCTTGGCAGCTTTCTGGGCTACTAAATATCAC
ACCGTCTGGTGGGACATTTCACCCAAGTTGTTCATTTATTAGTTTTCTGGCTTCGNGGAG
AATTATCTGCCTTCTCTGAGTATTGATTTCATTGNGCCCCGCGTACCTNGGCCGCGACCA
0
Sequence 1955
CGCGGTGGCGGCCGCATACACGCGGGCGATGACTTCGTCGCGCCGGTTCTGGTCGATGGC
GCGCGTGACGATGGGGCTGCGTCCGGGCGGCAGCTCGTCGATCACCGACACTTCCAGGTC
GGCGTAATACGTCATGGCCAGGGTGCGCGGGATCGGCGTGGCCGACATCATCAGCTGGTG
CGGCACGGC
Sequence 1956
GAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTGATCTAACCAAGATATTTTGTTTTT
CTCATCCACCAGTCACTTTCTCAGTCCTTTCTGTATCCCTTGCAATTTGAACAAAGCTTG
GTGAATAGTGTGCACACAAAAAGCACACTAGGTGAAAGACAGATACATAAAAAGGGTAAA
GTCAGGATATTTTAACAAACCTATCAAGCTCTAAATATAAGCCTCCTTGGTAGTTTTCTC
TTTAACCCTCTCTCCACTGTTGGATGAAATTTGCTGCATTCAATTCCAGTTCCCACCCCA
ACTTCCTTCTTAACACAAGGTCAGGGTTAAGCCTTCGGTGCTTTAATCCAGAGGAAAATT
ACTTATTTTAAAAAGCAGTGAAAAACACCGCATTCCTTTGGC
Sequence 1957
CCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCCTCAACTTCTGAGAGCTTAAGGTATTTG
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ACACTTTACTGGATACTGGAGGATTTAAGGGAAGGAAAAAAGTGACCTTTTTTGCCTTTT
TAAGAGCTTGTAATCGGTAAAGGAGATAAAACTCACACAAAGGTCAGGGTATATTTTGTG
CTAAGCATATGACCGTAGACATTTAAAGTGCTGCCCGTAATGCAGAAAGAAGAAGAAAGT
GGTGTGATCTAAAAGTAACATAGGTTTTGGTTTTGGTTTGNTTTTTGNTNTTTTCCTTTT
TCTTTTTCTTTTTCT
Sequence 1958
CCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGAC
CTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTC
CTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAG
GGATATCCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGTCAGAGATGGGAAGA
AACAAGAACTTTGACATGCTTGGTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCT
ATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAA

Table 1

ACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAACAATGTGATGGTGTTTGGANGTGG
AGCCTTCAAAAAGGTATTAATGCCCTTGTAAGAAGAAGGCCAGAAAAGCTTGCGCCCCTT
CTTTCTGCCCTGTGGANGGAGCCCAAGANNCCGGCTGGTCTTGCNACCTTGCAAGAAGGA
CCCCTCACTTAGAAGCTAGGCCNTACTTGGGCTTNCTTAATCTTGGGCTTTTCCNACCTT
NCAGAACTTGTGANNAAGTTNTNTTGTTTGGGGGTTAATCCAATGGGCTATNGGAAATTT
TTTTATNACCNNNCCCNNGCCAAGANAGGGCCCTTATTTACTTCCTTCCCTT
Sequence 1959
GGCGAATGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAAGACTTG
AAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTGACAAAG
ATAGACCACTGGAACAATGAGAAGGAGAGAATTCTCTGGTCACAGACAAGACTCTCTTGA
TCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTCTGAGCG
CTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACAAGAGAC
AAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCNGAGGAGCAGTCTCTTCTGTCCCGCT
GGAACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACA
CCNAGTGAGAAAATTCCTTGAAATTTGCAAGTNGTCTGGGTTCATTGTCTAAAGCTTGGT
TCCAACTTTTCCAGAATGCCCCCCAAAGAATTCACTNGGATCTTGGAAAAAGGAAAAAAA
CCTGATGGNGGTTAACTGAANCCATTTTGGTTGGNACCCTANCCAGGGCTNGATGTCATT
TATTTGGGAAACCCNNACAAACTTGGCTTTTTCCTTTGCCCCNGGGANGNNTTGGGTTTT
GAGAAGCTTTTTTGGNNCCTCGGCCCCTTTTANAACTTAGNGGATNCCCCCCGGCCTNNG
GGAATTCNAATNCAANCTTTTNGATNCCCGNNACCCTTGNGGGGGGGGGC
Sequence 1960
TATAGGGCAAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGG
AAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTA
GGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATG
GTAAAGCCCTTGGTTAAATTTATTGGCTTCATTTATGTATCTCACAACACTTCTTTTCTG
TTTTAATTCTAGGAATAGAAACTTACTTTTGGAAATACAGNACCTGCCGGCGGCCGTCTA
GAACTAGTGGATCCCCCCGG
Sequence 1961
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAAGGAGGCAAGGAGATT
ACATTTTTCTTATTTCTACTACTTTTTGTTGCCTAACACCGTTTAGCTGGTGGGACAGGN
TCTAAGTATTNGCTAAATATTGNTCTCATTATTTTGAACATGTAAAAGATGACTGCATTC
TTATATATTTCCCTTTTAAGTTTGAAAAGTGAACTACTTTCTTTATATAAAAATTCATTT
GCCTATTGTCTCAGAATATCACATATAACTGGTGCACTGG
Sequence 1962
GCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTTTGTAGATGGAAGGAAGAA
CTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACC
CTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGGTAAG
CCCTTGGTTAAATTTATTGGCTTCATTTATGTATCTCACAACACTTCTTTTCTGTTTTAG
TTCTAGGAATAGAAACTTACTTTTGGAAATACAGTACCT
Sequence 1963
CTACTATAGGGCGAATTNGAGCTCCCCGCGGTGGCGGCCGAGGTACCCGGCTTGGTGAGG
AGTCCCAGATTGTGGAACAAAGTATTCCTCTGTTCAATACCATCTTCCAAAAAGAAACAA
TGACCTAGTGTGTCAAACCCAATGGTGTCCTTTATTAGCAAGCCATTTGTCCCATGCACA
GTGATGCACCTTGAGAAGCTGTGATGAAATAGACAGGCCGTCCACAAAATGTTGCAATGT
CTGTATCCTCCTTTATAATCCACGTCACCACACAGGTGAAAATGAACAGGGTATCGCCCC
ATCTGCTGCTGACCCATGTTGTTTCAATTCCACATAAGAAAGGATGGACTGGAAGTAAAA
ATTTTTCATTATCATAATGGTGTTCCCCCAAAAGGTTATTCATTAAATTCAAAAAAAATT
TGGGCACCTGGATTTTTTTCTTGCGTTTAGCCATGGAGTTCCCTCCAACTTTCTTCCC
Sequence 1964

# Table 1

ATNGGAGCTCCCCGNGGTGGCGGCCGCCCGGGCAGGTACTCCACAAGCCAGAAGATTAGT
CTCCTTCCCTGTAGCCTCATCTAGCTTACTTATTCAGACTTTCTGTTCACAAGGGGTTTG
TTATCTTCATGAAATTTTAATATGTGTAAGTTAGAAATGAAATTAGAAAAAGAGGTTCTT
GCTGTAAACACTGGGCANGAGTAGCTCANAAGAAGACTGTGGTTCTTGGATGCCCTCATG
CCTTTGTTCCAGTGCAGGTGCCTAGTGGAGGGTGCAGTGCTCTTGCAACATAGAAGGACC
CATTCTTGCAGGGAGCTTGATGGCTTAACTTTCCTNGGAACCGGGAAGGGAGAAGGAAAG
GGCCTTTGTTNGGACCCCCAACCTTTTGTTTNGNAATTTGGACTTGGNGCTTTTTTTTGN
ANAAANAACCCANCCCGGAAAAAAANTTCCCCCTTTTTC
Sequence 1965
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTCAGAT
GAAGCTGAGCTATCAAGTGACTTGGTTCAAGACCTATCTTTCAGACTGTCTTTCCTTCTA
CTATGCAGATCAACATCCTATGTAAGCTGTGACCCCAGGCAGTAATTAGTTTTCACAATC
CTTCTTCAAGATTGAGGGACCCTTTTCCCAGACTATGTTTTCATGAAGTAAGCTGGCTGG
CCTTTGTCTCCCAACATTTATGGAAAGCTTTTGGTGCCTGATGTATACTTGATGTCAAAC
TCTTTCCCATTTTTGTGTCCCTCTGGACACAGAAGTCAGGTAGGTCCAAGACTTCGGTGT
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TATTATGCCCAGGGGAATTTTACCCTACAAAAAA
Sequence 1966
CGCTTTCTCATAGCTCACGCCTGTAGGTATCTCAAGTTTCGGTGTAAGGTCCGTTTCGCT
CCAAAGCTGGGCCTGTGTTGCACAGAACCCCCCGTTTCAAGCCCCGGACCCGGCTT
Sequence 1967
CCGGGCAGGTACGCCTACTCAACCCGGCTGTTCACCATTGATGGCATCAGCATCCCATAC
ACATGGAACCACACCGTTTTCTATGATCAGGCACAGGGAAGAATGCCTTTCTTGGTTGAA
ACACTTCATGCATCCTCTGTGGAATCTGACTATAACCAGATAGAAAGAGACACTGGGTTT
TAAAATTCATGCTTCAATATCCAAAGGAGATCGCAGTAATCAGTGCCCCTCCGGGTTTAC
CTTAGACTCAGTTGGACCTTTTTGTGCTGATGAGGATGAATGTGCAGCAGGGAATCCCTG
CTCCCATAGCTGCCACAATGCCATGGGGACTTACTACTGCTCCTGCCCTAAAGGCCTCAC
CATAGCTGCAGATGGGAAGAACTTGTCAAGGATATTGATGGAGTGTGCTTTG
Sequence 1968
GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
ATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGACTTCATCATGCTGAGT
TGTGTGCAGCTGCAGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC
ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGG
AGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTTA
TGCTACTTTCACTGAGCATCCTATTGAAATACACCAAGTTGAGAAATTCCTTGA
Sequence 1969
AGGTACTGATCTAACCAAGATATTTTGTTTTTCTCATCCACCAGTCACTTTCCCAGTCCT
TTCTGTATCCCTTGCAATTTGAACAAAGCTTGGTGAATAGTGTGCACACAAAAAGCACAC
TAGGTGAAAGACAGATACATAAAAAGGGTAAAGTCAGGATATTTTAACCAAACCTATCAA
GCTCTAAATATAANCCTCCTTGGTAGTTTTCTCTTTAACCCTCTCTCCACTGTTGGATGA
AATTTGCTGCATTCAATTCCAGTTCCCACCCCAACTTCCTTCTTAACACAAGGTCAGGGT
TAAGCCTTCGGTGCTTTAATCCAGAGGGAAAATTACTTATTTTAAAAAGCAGTGAAAAAA
CACCCGCATTCCTTTGGC
Sequence 1970
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTG
CCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAA
ACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCA
AAACATCAAGAGAAGATGAGAGGAGATGGGAAGAAACAAGAACTTTGACATGCTTGGTGT

Table 1

TCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCCACC
TTGCCCAACAGTGGAAAAAAAAANAAANNAANNAATAGGTACCT
Sequence 1971
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GTTAAGCATTCGGCCACTCATGTTTCTTCAGCTCCCCCACCTCCTCCCTATCCTCCCAGG
TTCCCACTGAATTATATATCATTTCATTCATAAATAATTCTGTATATTTAGTTACAGCTC
AATGAATTTCCACAAAGTGAACATGCTCATGCAAACCACACCTGCACTGGGAAATAGAAA
TTACAAACACCCGGAGCCCCCTCTGCAATACTCTCTCAGTCCTTTCCTCACTCCTTCCCA
AAAGAGTAGCTACTATCACCTATTGTGAACCTTGCATATATGGATTCATAGAACATGTGT
ATTTTTTGGTTTGGCTACATTTGTCTAACATTGTTGGTAAGATTTATCCATGTTGTTGCA
TATAGCCATAGTTTATTTA
Sequence 1972
ACGGTGAGCCGTTGCTTGTTCTCAAAGAGCCATTTCTTGAACGACCCGTTCCATTGGCGC
ACCATCTCGGTGTGTGAAGTCGACCGACGGAACAAGACCAAGCCTGTCGACCCCGCCATG
TGCCAGCTCCACTCTGGAGCAAGCTCAACTTGCCACCCGATGAGCTTGGCCAAGTTCTTG
TGCTTCAATAAAGCTNGGNACACTACCATCTTCGCTCAGGTAGGGCATTGACACCCGCGC
GGTGCAATATTCGATGCGCTTCCCAGACTCCAGTGGCAGATAATCATAGTAGTACTGCAT
GTGGTCTTGGCCTGGAAACTCGATATTGGCTGCTGAGCCCCAAGCCGGCAGGCACGCTTT
GTAATCGACACCCATTTGCAGCTGCGCAACGACTNCTTTTCCGCTCCCCGGGGCCTCGAT
ATGGCCCAAC
Sequence 1973
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACCTTAGC
AAATAGATAGTTTATTCACCAACTATAATCACCTTAACAATAAAAGCTCTCTTTTCGAGA
ACACTGCGTGTCAGGCACTTCATGAAAATTATACTAAACACTTTATGAAAATTATCTCTA
GCTGCAAATTCCCGCGGATGCTATGCAAATTAGGTATAGCTACACTTTGCTGATGGGGAA
AGTATAGCTTAGAGAAGGTAGACGAACTGCCCAAGGCCAGAGCTATGTGGCAGAGATGGA
ATTCAAATGCAAGTATAAATAATAGAATAATTTTCAGTTGGAAATTTCAAAAAGCTGTTC
TAGTTACATTGATGTTAAAATCTGTTATTCATTTAAGATGAAGATGGCAAGGGGAGATAA
AATTACAGGGAAGTGGTGAGGATAGAGCTGAGGAAAGAAACTTGGAATGAGATTTTAAAA
AGAAATCTGGAAA
Sequence 1973
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGAGCGGCCGCCCGGGCAGGTACCTTAGC
AAATAGATAGTTTATTCACCAACTATAATCACCTTAACAATAAAAGCTCTCTTTTCGAGA
ACACTGCGTGTCAGGCACTTCATGAAAATTATACTAAACACTTTATGAAAATTATCTCTA
GCTGCAAATTCCCGCGGATGCTATGCAAATTAGGTATAGCTACACTTTGCTGATGGGGAA
AGTATAGCTTAGAGAAGGTAGACGAACTGCCCAAGGCCAGAGCTATGTGGCAGAGATGGA
ATTCAAATGCAAGTATAAATAATAGAATAATTTTCAGTTGGAAATTTCAAAAAGCTGTTC
TAGTTACATTGATGTTAAAATCTGTTATTCATTTAAGATGAAGATGGCAAGGGGAGATAA
AATTACAGGGAAGTGGTGAGGATAGAGCTGAGGAAAGAAACTTGGAATGAGATTTTAAAA
AGAAATCTGGAAA
Sequence 1975
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AGGGTGTGTTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTAAAAATGTGATGTT
GGTATATCATCCTGATAGAAAACACTGCTTTCCAAATCCTAGTCACTGGATGGGAGGAAA
GTAAGAACAGATTCTTCCAACCACTACTGATTTGTTATAATTCTCCCCATTGAAATTGGG
ACAAAATTTGTAACATGCTACTCCGAAATTGATCACATTCTCAATTCTGTCAATAGCAGA
GAATTTAGCCTCAACACCACCAATTCAAAATAAGTTTAGGTCTTGCCCCTGCCTGATTAT
GTAACAGAAAAGCATAAAGTTTGCAGGGTGGAGCGGGAGGATTTTTCTAGGAAACTTCCT
TCTCTTCCATTAACCGTGTTGAATGAGTAAGGACAGTTAAT

Table 1

Sequence 1975
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGAGACAGCATGC
AGGGTGTGTTCAGAAGAGCTTGCTGAGGTGCTCGGCTCTTAGCATTAAAAATGTGATGTT
GGTATATCATCCTGATAGAAAACACTGCTTTCCAAATCCTAGTCACTGGATGGGAGGAAA
GTAAGAACAGATTCTTCCAACCACTACTGATTTGTTATAATTCTCCCCATTGAAATTGGG
ACAAAATTTGTAACATGCTACTCCGAAATTGATCACATTCTCAATTCTGTCAATAGCAGA
GAATTTAGCCTCAACACCACCAATTCAAAATAAGTTTAGGTCTTGCCCCTGCCTGATTAT
GTAACAGAAAAGCATAAAGTTTGCAGGGTGGAGCGGGAGGATTTTTCTAGGAAACTTCCT
TCTCTTCCATTAACCGTGTTGAATGAGTAAGGACAGTTAAT
Sequence 1977
CCGCGGTGGCCCGCCCGGGCAGGTACATGACATTATTGTACGCTGTTGTTTACATTACAG
GAATACTTCGGATATACCAATGCATGTGAAGAATGGGTTTCCCCTCAGTTTCACATAAAC
TTAGAAATGTCTCAACTGACATTTCTTTTTCTTTTTTTTAATNTTTAATTNTTTTTTTT
TTGAGACAGTTTCGCTCTGTCCNCCCANGCTANAGTGCAGTGGTGTGATCTCAGCTCACT
GCAAGCTCCGCCTCCAGTGTTCAGGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA
CTACAGGTGCCCGCCACCACGCTCAGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTT
CACCATGTTAGCCAGGATGGTCTCCATCTCCTGACCCTGTGAACCACCCGCCTTGACCTT
CCAAAGTGCTGGGATTACAGGGGTGAGCCGCCNCGCCCGGCTCA
Sequence 1977
CCGCGGTGGCCCGCCCGGGCAGGTACATGACATTATTGTACGCTGTTGTTTACATTACAG
GAATACTTCGGATATACCAATGCATGTGAAGAATGGGTTTCCCCTCAGTTTCACATAAAC
TTAGAAATGTCTCAACTGACATTTCTTTTTCTTTTTTTTAATNTTTAATTNTTTTTTTT
TTGAGACAGTTTCGCTCTGTCCNCCCANGCTANAGTGCAGTGGTGTGATCTCAGCTCACT
GCAAGCTCCGCCTCCAGTGTTCAGGCCATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGA
CTACAGGTGCCCGCCACCACGCTCAGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTT
CACCATGTTAGCCAGGATGGTCTCCATCTCCTGACCCTGTGAACCACCCGCCTTGACCTT
CCAAAGTGCTGGGATTACAGGGGTGAGCCGCCNCGCCCGGCTCA
Sequence 1979
CCGGGCAGGTACGCGGGAAAGAGAAGGAGAATATACAGTCTTTGTATTGACCTGTATGCT
TCTCATTTTTGTTCTTTTTGTTCCTTTCTATAATTCTGGATTTCCATCTTGTTTAATAGC
CCTCAGCCTGAGGGATATCAGCATTTCTTGTGCTATGGATCTTCTAGCAACATATAATTT
CATCTTTTATGCATATCCAGAAATTGTTGCTTTGCTTTGATTTTTGTTTTGTAGTTTCAC
TCTGTGTAGAATTTCTGGTTACCGTTTTTTTCTTCCCAGCATTTTGAGATATTGATCCAG
TGAGTTCTGTCATGCATTTGCCTACTTGGGTGAAATGTCCCACCAGACGGTGTGATATTT
AGTAGCCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATGAACCAGTTTG
CTCTCCATAGGGAGGATTTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGATTTGCT
AAGTGTCTATGCCATATGATTCTGCTGTTTGCGTTTGATTTAGAATGCTGAGCTGACTCA
AAGTCAAACTGNAAGTACCT
Sequence 1980
CCGCGGNGGCGGCCGCCCGGGCAGGNACGNNGNTGGAGGGGGTGTNAAAACCCCCNGACG
CCGGGAGGAGANGCTGCCACCTAGGNNACTTGNAGGACCCNATACGGCAACCCCCTTNGC
CAGGAACNATNNATAAACATCCCGCAGGAAAANGAGNCNATATGNCAGAANACACANNTC
CNACCNNGCCCAACAGTAGAAAAACNNAAGAAGAGAAAAACAANAAAAAANGACAAGGAA
GNCAANGGAAGNCAGCAANGNGANGGNGNTTGGAGGGGGAGCCCNCAGAAGGGAANNAAN
GCCCCNGGAAGAAGAGGCCAGAGAGCNNGCGCACCCNCNNCCCGCCANGGGAGGAGCCAA
GAAGCCGGCNGGCNGCAACCCGCAAGAGGACCCCCACCAGAAGCCAGCCANACCGGCANC
CCCAACNNGGCCNNCCAACCNCCAGAACCGGGAGAAGGANANGGNNGGGGNNAGNCAAN
GGGCCAAGGGAANNNNNNAAAGCAGNCCCAGCCAAGACAGGGCCCCAANNACCACANACC
AANNAAANNANNANANAGGCCCCCNNCANAAACCCANGGNCAAANAAGAGAAAAGAA

Table 1

Sequence 1981
CCGGGCAGGTACAATCATTACATAATCATGACATTTTAATTCTTAATTACAATGCCTTTC
CAACTATATAAAAATATGTCTAGTGACACATATTTTGGAAAGCTTTCTTGGAAAAACATC
CAGAGATTGTGTTCATCACTATCTATATAAATGAGCTTATACTGAACCTTAAATATGTTT
ATTCAGCCTAACAATCAGAAAAAGAAAACGTTTTTAACAGTATAAAGTTCAGATGAGTC
CACTTGTCTTGGAATTTTATTTTGATTTTAATTAGAAGAAAGACTGCCATTAGAATTGTT
TTCTAATGAAATCTTTATAAATTCTCTGGGCAGTGCCCTGTATCTTTATTAGAAAGACTT
CTTATTTTTAACAATTTTATTTGGAAGAAGTNCTACTCATTT
Sequence 1982
AGGTACTCAGTAACTTCCTGGGACCCCTTTTGCCTATCTTCTGAATAGAAACATAGAGCT
TCTTGCAGAGTATTAGCTCCTGGCTTTATTGCTTGCTCATTTCTACATAACTGGGTCAAC
CCTGGGGCACCACAGTGACAGAAAAAGAAAGAAAAATAATGGGGTCCCCACCCTGTCAC
TCTTTGGAGTTTATGGTTCCCTTTTCTTAGTTCTTCTTGTCAAAAAGATAGGTTTTTCCT
TCAGGATTTTAGATCAGCTATCACCGCCACATTGCAGCTGTATGATTGGGGTGGCCCTTG
ACACAGGACCAAAAGAGAGCAACAACAACAGCATCAACAACAACCATAGTGATCCTACCC
CCTACTCCTGGTGACGGCTTCCTGGGGCTCCTTATCCCCATTCTTGGGACAGCTTATCTC
AGATTTTCTCTGCTCACCCCTGCTATGCAGTTCCAAATTTGATATTTGGAACTGGTAGTA
TCTTCAGATCAAGTTGAGAGACANANNANAAAANNNNANNNNNNAAGTACCTGCCCG
Sequence 1983
CCGCGGTGGCGGCCGCCCGGGCAGGTACGTATAACAACATGAATTCATCTCAAAGACATT
ATGTTGAAGCCAGATTTGACATAACTCATTCTTTGTCATTCCATTTATGTGAACTTTGGG
AATAGTCAAAACTTAGCTATGGTGACAGCAGTCAGGGCAGTAATTATCTATCGAGTGTGG
AGATTGACTGAAAAGGGCACAGGAGAACTTTCTGAAATAATAAAAATGTCCTATATCTTG
TTTTGCATCGTAGTTACACAGGTGTAGACAGTTGCTAAAACGCTAAAAACTAAATGTGTA
AGATTTATGCATTTTAGTGTATTTAAATTATAACCCCCAGAAAGCATTGCCTCATTTTTT
CTGGAGGGTAAATATGCTCGTTAGGAGCATAAGGGGATGATTTTGAGAAACCCTTGCTCT
GTCATTCTGTCAGTAAACCGCCACTAACTTTTCTGGTTTCAAAAAAGCAAGGTCCATTGA
TGAAACTCCTTTGTGCCTTAATGACAAATAACATTGATAAGGCCTACTGGCAACAAGAGT
GNGGTTGGTATATCTTTTGGTTTTAGNGACTAAATTTGGANGAATGATATTTTCATGG
Sequence 1984
CACTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGGTGTT
ATTTATCTATTGCCATCATTTCAGGGACACCTAGGAAAATAAATTTTCAATTGCATAAAA
CCTAATTATTTCATACTGCAGACATTTGATCAAAGGCTTACTTGATCAAAGGCTTGTCCC
AATTGCTCCTCCAGGGATTCGTTCTGCTCAGATAAGATATGGTTCCGCTTTAAGAGAGCT
TGTCCAATTCGAGCAGCGAGTTCCAGATCACGATCCCTCTCTGCCAGGAGATGTGTAACC
ATGTCGATGTCATTGTAAGTTTTGGTCATCTGCTCCACCCTGTCTGGTGCCTAAGAATCA
TGTAACCGGAAAGTCTCTTCAGCAAGGAC
Sequence 1985
CCGCGGTGGCGGCCCGAGGTACAACTTGACAGTTTATAAAAATGCTAACCTATATCAACA
TTTTTCCCCACCAAAGTGTTCCCAAGGGCAAAAGTAAGTGAATACATGTTTCCATGCTTG
TGTCAGGGGCACACAGCAAGGGAAGGCAGAATGGGCATGACCTAGATTAGATTCCAGAAG
CCTTCAAATTCCTTATAAGACTTGGGACTGCATCTTAAAATAATATTGTTTTTTTTTATT
CTTTGATAATAAAAGAATGGAACCAAATCCTGGTTGTCTGATTCTTTGCCCAGTGCTCTT
TCTTATGTCTAACACTGCCTCGTCTTATGAATAACTCTGACATTACAGAGAAAGACTATT
GTTTGTTCAGTTCAACACTCAATTCCATAGGTGCTAGCAATTATGAAAAAGGCTGTTAGT
ATCCAGCGGGGAAAGCAAANGATCCCGCAGGTGGTAACACCCTACTGAGAGCAGAGGGGG
ATGAATACA
Sequence 1986
CCGCGGTGGCGGCCGAGGTACACTTGGTGCAATAAAGTGCATCTTTAAAGTGTTTTGAGT

Table 1

TTGGACACAGACCCGTGAAACCAACACCATAATCAAGATTCATGATGAATATGTTCCACG
TAGTTTTCATTTAAATCCCTCTCAGTAGCATATTTGTCTGTTTAAGAGCCATTTGCATTT
TTTCCATAAATTGCTTGTTCCTCTCCCCCTGCCCGCCCCCGCGTACCTGCCCG
Sequence 1987
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACACTTATAGTTGAGAGCCA
AGTCTCCCTTATCATTGGTGAATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTTCTA
CTCAGCCTCTACCCCTAATATTTATATCAGAAGCAGAGATTAACTGTCCTTACTCATTCA
CACGTTAATGGAAGAGAAGGAAGTTTCCTAGAAAAATCCTCCCGCTCCACCCTGCAAACT
TTATGCCTTTCTGTTACATAATCAGGCAGGGGCAAGACCTAAACTATTTTGAATTGGTGG
TGTTGAGGCTAAATTCTCTGCTATTGACAGAATTGAGAATGTGATCAATTTCAGAGTAGC
ATGTTACAAATTTTGTCCCAATTTCAATGGGGAGAATTATAACAAATCAGTAGTGGTTGG
CAGAATCTGTTCTTACTTTCCTCCCATCCAGTGACTAGGATTTGGAAAGCAGTGTTTTCT
ATCAGGATGATATACCAACATCACATTTTTA
Sequence 1988
NACTCACTATAGGGGCGAATTGGGAGCTCCCCCGCGGTGGCGGCCCGCCCGGGCAGGTAC
GCGGGTATCCAGTTATTTCATTGGTTGAAATAGCTGACCGCTTATAATAAAGTAGTCTGT
GGACTGCTTAAATTTTGTAGTGAATTCCTGTGTGTGCATTTTTGTAATGGTCATTCTCAG
TCGTAAATGTCTTTAGAAAGTCATCTAACACAAATACATTGAGAGAAGTTTTCCTAGCAT
AAGCCTGGTCATAAACTCCACCTGATAACTTGGGGCTTGATTTAAATCAAGTGGAAGCTC
TGTGCAAAAAGATGGATATGTGACCAATATAATAATGGCTCCTTTTGCAAGAACAATACT
TCTGAAATTAAGGGGAATGCATTAAGATGTGTATGTAATAAATAATTGAAAATAATTTTG
GAGGCAGAAGTTATTGTAAGTGAAATTCTGTCATAAGGTGAAACAATCCT
Sequence 1989
CCGCGGTGGCGGCCGAGGTACTGGGGCCTTACTTCCCTAAAGACCCAGGGAGGGGAGAGA
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AGTGCTTACTGCATGCCAGACCCGTGCTAAGCTCTCTCCATGCACTATCTTAATGTTCAC
AACCTCACACAGTAAGCATTATTAACAACAGCACTTTACAAATAGAAATTTGTTGAGGCT
CAGAGTTGCCATAGCTGGTGAGCATCCACAGCCTACATTCAAACCCAAGTTTCATTCCAA
AGCTTTGCTTTCCTGCTGCTGTATGTCTTTTGCGTCATCTTCGCATATTTAACCTCCTTG
GCTCAACTGGGAACTCTTTGAAGGCTAGGGCCATCAATTACATTTTTGTTTCTTCAA
Sequence 1990
CGCCCGGGCAGGTACAGTGTCAGGGCTTATGCTACCAGACTAGGTGGAGGAGATGACATG
CAGATTCAGGAGAGGATCCAGGGCTCATGAGGACGTGGAGGTTTTGTTCTAAGCATTGGG
TTTTTGTTTGGCTTTTTCTGTGTAAACTTCTCTTTCACCTTCCATTCAGAATGGCTCCAA
ATTCTTTCTTCAATAGTGGAAGTATTATTGTTAGTCAGGTTTTTCAATACTTAATAGTGG
TCTGTATTTGTGGGTGCATGTGGTATTTTGGTGCATGCATACCATGTGGAATTATCAGAC
CAGGGCNGCCGGGACATCAGTCACCCCAGACATCCACCCCTTCTTTATGTTGGGAACATT
TCACTTNCTCTCTTTCAGCAATTTTGAACAATGCAACAAACTACTGTTAGCTTTAAACAC
CCAACTGTGCTATCAAACAGTACATCTTACTTCACTAAATGNGGNTTTTATGCCCACGCC
ANNCTTCCTGGATAAAACTTTGTCTAAAGTGTTTCAAAGAGGCTGCTCAAAGGAAATGTG
GCTTGTTTTGGGANGTCTGAAATGTTTTCAAAATTTCTGGCTTTGAAAAAA
Sequence 1991
CGGCCCCTCGTGGTGGCCAGGCGCGATGCGCGCGGCGTGGCAGAACTGCTGCGTCCGTAC
ACCAAAGAGGCGCTGGCGCCCGGCGAATTCCTGCTCGAACTGACGCCGAAGGATGGCAAT
TGGGTGCTGGTCAGCGATGCCTGGTTCTTCAAGGAAGGCGAGGCGACGCGCTGGGAAAAG
GCCCGCTATGGCGAGTTCCGCGTGCTGCCCGATGGCCGCGCCTTGCTGGTGGGCATGCGC
GGGGAAGATTTACAGGCACTGTAACCGCTTGATTGAACAAACCCAATG
Sequence 1992
CGGGCAGGTACTTTGGCACATGCTGGTAGCCAGGAGTCTGGGCCTGAAATTTGGTCCTGA

Table 1

CTCCACCCTCATCTCTCTGCATGACTTCTCTGGGAGATACAGCCTCTCCATTTTACACTG
AGAGAACTAAATGAGCTCTAAAGCTGCCCTGACAGCTGACAGTCAAGGTTAGCATATTTC
TGTGTGGCTCTGGCAAAAGTACCT
Sequence 1993
CCGCGGTGGCGGCCGAGGTACACTTATAGTTGAGAGCCAAGTCTCCCTTATCATTGGTGA
ATGAGAATGAGCTACTGAAAACAAAAAGAGGGTCTTCTACTCAGCCTCTACCCCTAATAT
TTATATCAGAAGCAGAGATTAACTGTCCTTACTCATTCACACGTTAATGGAAGAGAAGGA
AGTTTCCTAGAAAAATCCTCCCGCTCCACCCTGCAAACTTTATGCTTTTCTGTTACATAA
TCAGGCAGGGGCAAGACCTAAACTATTTTGAATTGGTGGTGTTGAGGCTAAATTCTCTGC
TATTGACAGAATTGAGAATGTGATCAATTTCAGAGTAGCATGTTACAAATTTTGTCCCAA
TTTCAATGGGGAGAATTATAACAAATCAGTAGTGGTTGGCAGAATCTGTTCTTACTTTCC
TCCCATCCAGTGACTAGGATTTGGAAAGCAGTGTTTTCTATCAGGATGATATACCAACAT
CGCATTTT
Sequence 1994
CGGTGGCGGCCGAGGTACCGGTTGATGTAAGCACAGGGATGGTGGGGACAGGGTGACCAA
AGTGAACTGGGCACGAGATGAGTAGCTGGTATATAGTGACTTGGAAGGCAAGGTGCTTGA
AATTTCCTGGAAAATCTCTGCAAGTGCACAGTAGAAACTATTATCATTGGTTACGTGCTT
CAAGAGGACTGGGCAGATGGGGGGGCAGGAATAAGAGAGCCACTATTCACTTGACAAATT
CTTGGACATTTTGATTTCTGAGCCATATGGATGTGTGTCCTATCAAAAAGAATAAGTGAA
AATGTTCAATAGTAAGAGAACACTTTGTAAATCTCTGGCTGCTGCTCTTTGTGATTAGCC
TCTCAGCACTCTTATTTGGAATAATCAGAAAAATACAACTATCTAAATTTTGGGAGGAGA
GTATACTTGTGGAGATTTGGGAAGAAAGAAAATAAGTATGGAAAGTTTCCCCCAATAATA
AAATGAAATTCATTGGAAAGCCATTTCAAACATTTAGAAAGTTAACCCAGAAAAATAGAA
AGG
Sequence 1995
GGCGGCCGCCCGGGCAGGTACTCGNNAAGCAGTGGTAACAACCCAGAGTACTCGGGAAGC
AGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAG
TGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTG
GTACCT
Sequence 1996
CGGCCGCCCGGGCAGGTACCNNNNACTNATTNTGCTGTGATCCTAAAACACTCTAAAAGA
TAAAGCCTATTAAAACCATATTTTTAAAAAACTGACAGGTGTTCTTAAGATTAACTANTG
AGTTCAGAGAATAAATNGAGGATGAGATGAATTTCTAAAAACAGCAGCACCATACATCAA
AAATACCCAGCTAGAAATTATAAATTTTTAAAAGATCACAGAAGATAAACAAAAACAAAC
CCCTCCCCATCTTATCTTTATTATTTNTTCTTATTTGTATAAAAATNAGGAGATATAAAT
AAATAGAAAACACTACTGAAATATTTACAGGGATTCATGAAAACAGATTTTAAGAAATTA
AGATACATATTGTCAGGTGTGGTGGGTCACGCCTGTANTCCCAGCACTNTGGAAGGCCAA
GGTGGGTGGATCACTTGAGGTCAGGAGTTTGAGGACCAGCCTGGCCAACATGGCAAAACC
CCATCTCTACTAAAAATACAAAA
Sequence 1997
CCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACC
TGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCC
TTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGGCCTCTTTAAATATACACTTC
TCTGTAGTGTATGCTAGAAATGGAGTGGCTGGAATAAAAGTGGCTGAATCATCTTCAACT
CTAGTAGCTGAGACCAATGATGCTGACCTCCCTCAAAAGCTGCATTTCTGAATTTCTGAA
GGCAAACTGTCTGCCTATATTGTACCTGCCCG
Sequence 1998
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCTAATCCCAGT
TTACATTTAAAACACTTCAAATGGAGCCACTAGGACTCAAAGTTGCTAAATACACCCATG

Table 1

CCCTCTTATCGCCTTCCACTGGGGGTGGTTCTTCGGTATTTTAAGTCTTGGAAGTTAATT
TTTGAGGAAAAAAAAGTAATAGACATGTGACAAAAACAGGAAGAAGGGACACAGTTCAAC
TGGGTTGTAGCTCTAATCTCACTTTATCAGCTGCTTGAAAGAGGGAAATGAAGGACAGAG
CGGTAGGAAGTCTGCACACACCAACCTCATGGAGACCAGCTCAGCCCCCAATGCAGTCAA
GCTACCTAACCTCCTGGAAACATAAAGATCGGCGTGTTACTTG
Sequence 1999
NCCGGGCAGGTACTTGCTTAGTCAGTTCTGTGGGCCAGAGGACACTCATGGGGAGAGATC
AAGGTTACTTTTTGCAGGTGGGGCATTTTGTAACTGAATAAAACCCAGTCAGTAAAAGTA
ANCNACATGCNGAATCTANGCAAGTGTTGCAATGTATGTNTGCTCTTGATCTGAGGAAGA
CCATGCATTTGACTCAGACTAGAAACCTACACCACAGAAATCCCACCCACAAGCAATGCT
CTATTACTGTAGGTACCTCGGCC
Sequence 2000
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGGGCTACAGGCAGG
CACCACCTCACCCAGCTAATTTTTTGTATTTTTAGTAAAGACAGGGTTTCGCCATGTTGC
CCAGGCTGGTCTCGAACTACTGGCCTCAAGTGATCAGCTCATCTTGGCTGCCCAAAGTGC
TGGGGTTACAGGCGTGAGCCACCATGCCCGGCCCCCGCAGGACTTTCTGCTGTTTCTCTC
AATTTTATGTAAGTAAAACAACAGCAACAATAAAATCCCTGTCACTTGAACACAGAATGA
ATTCTGCTTTATATATTTTGTATAGTTTGTATAGATATTTTGTATAGTTTATGAGGCACT
GAACTTTCCAGAACAGCAACTACTGTGTATACTGATGGGGCAA
Sequence 2001
AGGTACATTCTAATCCCAGTTTACATTTAAAACACTTCAAATGGAGCCACTAGGACTCAA
AGTTGCTAAATACACCCATGCCCTCTTATCGCCTTCCACTGGGGGTGGTTCTTCGGTATT
TTAAGTCTTGGAAGTTAATTTTTGAGGAAAAAAAAGTAATAGACATGTGACAAAAACAGG
AAGAAGGGACACAGTTCAACTGGGTTGTAGCTCTAATCTCACTTTATCAGCTGCTTGAAA
GAGGGAAATGAAGGACAGAGCGGTAGGAAGTCTGCACACACCAACCTCATGGAGACCAGC
TCAGCCCCCAATGCAGTCAAGCTACCTAACCTCCTGGAA
Sequence 2002
CCGGGCAGGTACTTTATATTACTTACTTGTTCACTAATAAACTTCTGGCATTGCATGTTT
ATTATTCTAATTTGGATTAATAAATATGTCAATTTATTTTATAAGTCAACCGATATGCTT
TTTTCAGCTTATAATTTTGTCTACTTAGTATCCTCTAAGTAGCATATCCTAATCTATTCT
TAAGATTCACATTGTTATATGCTTGACATAACTTTACAACCATCACCATGGAGAAAGAGA
TCTATAATGTAGACAGATTTTAATTTAATCATAATATCATCACATTTTAATTTTATTTGA
ACCTACACAGGTGCCATTTAAATAGGTGACAAGCTAATATTAAAATTATGATGGGAGTTG
GGGA
Sequence 2003
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGTCCCCTCACACCTTCTGTTGATGCC
TTATTACCACCAGGCAGATTAGAAGTTCTGGTTTCTCTAAATTTCAGTTGACTCTGTAAA
CTTATAATACTTATCTTATAATTCTGTTGAGAATATAAAATGAAATGATGCATGTAATAT
ATCAAGCCACTGTCTGATGTAGAATAATATTACTAACATTTATGATTTTGAAAATTAATA
ACAAAGTTGGAGGAAATACACCACCAACTTCAAATGCTAATATGAAGTTACAACGATCAA
GATAGTGTGGCATTGGTGTAAAAACAGACATGCTTATCAATGGCGCAGAATTAAAAGAAT
AGAAATTAACTTCTGCTTTG
Sequence 2004
CCGCGGTGGCGGCCGAGGTACCTGCACTTCAGACCCTGGCTCCATGTACACCTGTGCTCC
AAACCTGGCTCTGTGGCTACTGCACAGGTGCCAGCAGCTCAAACAGTCAAACAGTGCCAC
CCTTGCAATAAGGAAACCTACAAGCTAGACCGGATATCAAGAAAGATTCCTTCAGACATG
ACATCCCCTGTGGAAGAAAAAGACATTAGGGAGTCCCTAGCAGCCTTTGTCTTTGAAGAT
CCCTTACTGCTGCTGTGGATGCCCACAGCCTTGTTTGTTGAAAACCCTTGCAATCTTCAC
CAATTCTGATCTTCAGCTGACAAAAGATGCACAGGGGGAGGTTTGCCA

Table 1

Sequence 2005
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGAATGCTGTGTGGAGTCCTTTTTCTACTT
TTGTTCCTGAGAAAGAGAGATTCACAAACTTCCCACATTCTTCCAGTGGCATCTAAGGAT
CCCTTCCTAAATGGCCTTTCTCCCAGCCAATAGACTGAAGCAAACCATGTCCCTGATGCT
TCCTGCCCACCACCATCCATTCTTTCAACCAACAGCTTCTCCGGGCTTTCACGTGCCATG
CACTTTGCTAAGAGCTTGAGGGAAATACAGCAATGAAGAAGAGATGATTTCTGTTTGGAC
CCAGTGCTCAGGGATTCCTCCTATTAGGAAATCAAAGGAGGCTTCCAAAAGCCCTACAAT
TTTTTCCCTGNTAACTAAAGA
Sequence 2006
AGGTACGCGGGAGGAAAACACAACATGAACAGGCAGAGTGCACACGCCGTGGCCTCGGGA
AGCCACAATCATGTGGCTGACATGGTTCCAGAGTGTGGCATTAGGGAGACCAACTTCTGA
GCTGCAGATTCACAGCATGGCCATGCAAGCAGGGAAGATGTGCTCTACTCCAGGATCAAG
GAGCAAGCCCATATTTCCTCTTGATTCTGGGACTCCCTCTTGAGACTGATTTGCTCTAAT
GTTAGCTCTTGAGAGAACTGGGGTCCCTGCCTTCTTGGGGAGCCTGAAAAGAAGTTTTGC
T
Sequence 2007
GAGCTTCTGAACATTTCTTCTCAGACTAAGCTCTTACACACAGTTGCAGTTGAAAGAAAG
AATTGCTTGACATGGCCACAGGAGCAGGCAGCTTCCTGCAGACATGACAGTCAACGCAAA
CTCATGTCACTGTGGGCAGACACATGTTTGCAAAGAGACTCAGAGCCAAACAAGCACACT
CAATGTGCTTTGCCCAAATTTACCCATTAGGTAAATCTTCCCTCCTCCCAAGAAGAAAGT
GGAGAGAGCATGAGTCCTCACATGGAAACTTGAAGTCAGGGAAATGAAG
Sequence 2008
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGGGGAAAA
ATCCAAGACAAGAAAAGACTGTAATAAAGCTAAATATAACAGTATAATGATACCAGGTTG
CAGGCAGCAAATAGCAAACTTGAAACCATGGAAAAGGGAATTCATATAGTAGAGGACAAA
TTTAAGGAGGGTTTCAAAAGTGTAAGAACAAAAGACTTAAACTGATGAGCTAATAGTTGG
ATGACAGGTCTTGGAGATCCCAATTCTTTGGGAATAACAGTTTCTGAAGGAAAAAACAAC
AAAGAGAACAACCATGTTCAAAGGGAACAAAGGAAAAATAAATCTTTCAATTAAAGGAAA
GTTTTCTGCTTGNAAAATGAATGACCATTGGGTTAAGAGGGTAAAACTTATGAA
Sequence 2009
TCACAAAAAATCGACGCCTCAAGTTCANNAGGTGGCNGAAACCNCGTACAGGAACTTATT
AANAGCATACNCANGGCGGTTTTCCNNCCCTGGNAAAGCTTCCCCTNCGTGGCGCCTCTT
CCCTGTTATCACGACNCCTGGCCCGCNTTTACNCGGNATACCTTGTNCCGGCNCTTTTCC
TCCCCTTTCCGGGGNAAAGNCCGGT
Sequence 2010
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACGATGCAC
ACAGATGGGAGGAGCTGCCTTGAGCGAGAGGACACTGTCCTGGAGGTGACAGAGAGCAAC
ACCACATCAGTGGTGGATGGGGATAAACGGGTGAAACGGCGGCTGCTCATGGAAACGTGT
GCTGTCAACAATGGAGGCTGTGACCGCACCTGTAAGGATACTTCGACAGGTGTCCACTGC
AGTTGTCCTGTTGGATTCACTCTCCAGTTGGATGGGAAGACATGTAAAGATATTGATGAG
TGCCAGACCCGCAATGGAGGTTGTGATCATTTCTGCAAAAACATCTGTGGGCANGTTTTT
GACTGCGGCTTGCAAAGAAAGGGATTTT
Sequence 2011
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCCAGCACTTTAGCCC
TGTGTGGCCAGCGCCCCATGCGCAAGCGTCTTTCTGCCCCAGAGTTGCGGCTGAGTCTGA
CTAAGGGGCCTGGAAATGATGGAGCTTCACCCACCCAGTCTGCACCTTCCTCTCCTGATG
GCAGTTCTGACCTGGAGATAGACGAATTGGAGACACCTTCAGACTCGGAGCAGCTGGACA
GTGGACATGAATTTGAATGGGAAGATGAACTACCCCGGGCAGAGGGTCTGGGCACCAGTG
AGACAGCTGAAAGGCTGGGCCGAGGTTGTATGTGGGGATGTGACTGGAGAAGATGGACAT

Table 1

CACTGGGAGGGGGTGTTCCGAATGGGGACCC
Sequence 2012
GGGGACCGCCAGGGGCCTCGAGAATCGGTATCCTGAGTCCTCTTGAAGAGCAGTAGAGGT
TGTTTCATTAAGTGCAAACACATTGTTCTTAATTTGAAAACTGTGGGCAGAAACAGAAGC
CCGAGACTAATTTTTCCATTGCTAACTCTAGATTCTCGGCCACTGGAGTCTGAAGATACT
CTCTTTGAGAATGCATATTATTTTGCTCACAGCTAAAACATTTAAGTATCATAGCTGATC
AGTGGAGTGAGATTAAAAGGTTTCTTTTTTGAATCATCAGCTAGAGAT
Sequence 2013
CCGGGCAGGTACGCGGGATGATTAATCTTCCCTTATCCACAAACTTAACTGTGGAGAAAC
AGGAGAAAGTGTGTGCCTAGAAGCTGGATTCAGGGACCCATGGTTACCCACTTCTACTTA
TGATTCCGTCATTACTGTTGTTTTAGGAAAATAAACAGATCTTGATTCTTTCATAAAAGT
CGATTCTTCAACAAGCAAATGGGAAAATCGGCAGGCCCAGATATGTGTGTATAGCAGCTA
CTGGTTGGAAATTTGGACACAAAAGTCTTTATCTACCCAGCCTGTGAGCCACAAATCTGG
ACTGAGTATAAAAAAGAATAAAACTAAATACCACCATGGTTCTCACTTATTAAGTGGGGA
ACTAAA
Sequence 2014
CCGGGCAGGTACCCTGGATCGTTTCAGAGATCTAACGTGTTGCCACACCATANCTCTAAG
AAGCTGTGGGGCACAGTTCAAATTCTTANTGGAGTGTATGATTGCACAANGAAATACTTT
AAATATGTTTACTTTTTAATTTCTAATNGACTAAGAAAATCAGCNAGCATAAAAACTAAC
TTTTTTTANAAGGACTCCCCAAAAATTTTGCATGTTTTTTTCCAGGTNTTTTTATTTTTA
ATTTANNTNTGNTANGGGGCATTAAATTAAATNTNGTTGGCCANAATTTTAAAACNTTAN
TTGNNTTACCCNTTCGNGCCCCGCCTTTCTTATGNAAAACCTTNGATTNGGGAAATTCAC
CCCCCCNGGGGGGGNNTTGGGCAANGGGGTAAAAATTTTCCNGAATTTATTTNCAAAAGG
ACCCTTTTAAATTCCGGTNAATNAACCACNGGTTCNNNAATCCCCTTTCTATGAAANGNG
NGGGGGGNGGGGNCCNCCCCNGGTGTTAACCCCCCAAAAACC
Sequence 2015
CCGCGGTGGCGGCCGCTTTCTCTTACTGATAGTAGGATATTTCTGCTTTAGTTATTGTCA
CCTTAAATATATTTTCAATGTTGAAATCCTCACAGCATGTTTGATGAAATCTAGTTTTCA
AATTTTCTTAGGTATATTTCTGTCACGTTGGCATGATAACAAATGCAATAACCCAAAAGA
CCCCAAAAGCTAGTGTAATCCCTTTTGCAATCCAAGCATGAGGATTCATCTTCATGTTGA
CAGTGCGTGAATGTTCGGTAGGCTTTGTCAAGCTTGCATACAATAAATTATATTATGTCC
CTTTTTCTTTTAGGGGTCTCCTGTTTAAAGGATGGGTCTTCTGGAAGGGCTAACCTGCGG
GAATGGAAAAGTTT
Sequence 2016
AGGTACAATTCCTTTATTCCAAGGCCTGCTAGAATCTTACATGTTTATAAATTGCCTTTA
TAAGCTGGCATGCCTCTTGGAGTGGGGACAGACATTTGTTTTTCATGTGGTATGTCGGGA
GTATGAACTGGAAAGACCGAAATCAGTTATAATATGTCAGCATGGAATTGATCGTCGGTT
CTGTGAATCCAAGTTGAGTTGTATTCCTGGGCCTTGTCCAACTTCAGATGATTTGAAATA
TACTATGATTCGTTTAGCAGTAGATGGAGCCCGATATTTACATTGTTTGAGCATGGGTTG
TGCCTACAAATATAAAGATGGGTGCAATTCGAGTTGCCAAAACTGTAATCTC
Sequence 2017
CCGCGGTGGCGGCCGAGGTACGCGGGCGGTCTGAATGGAGGAAGTTGGTAATACTTGGCT
TTTTTTTTTCTTCTCTCATGCAAGTTTCCAGGATATAGCTTCTTTTTTTGCTGTATGTAA
TTGAGACCAAACTCTAAGCTTGGGGCCCTGGAGAGAACAGTTGTGGCCTGCAGGTCATTA
GTGAGGTGAGCAGAAGGGAATCCTGGACTTCCCAGAGAAAGAGGAGACCATGCCAGCCTC
GTGGAACACAGCTACCAGGAAATACAGAAGCCAGGTTCTATTCCTTGCCGAACTCCCGGA
AGTCCATGGAAAAAAACCGGGACCCACAGTGGGGGTGGGCCTAAAAATGTCCCAGCCGCC
AA
Sequence 2018

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGCTAGGCAGCTCTGGAGAAAGCAGAAGTG
GATAAATAAGGTGTGGACTCACCAAAGACAGTTCCAAAGTCAATTTCACTCTGACACACT
CTCTGTGATCTTCCACAGTCAGCACAATGCCTGCCCCCTGTGGGTGTTGTATAAATATTT
GTTGAATGAATGAATCAATCATTCAACAGACCAAGGCCAAATCAGAACCCCAAACCCTAA
GGTCTTTATACTCTCACTGTCCATCCATCGATCTTCCTGTCAGAAATCAGAATATACCTT
TGCAATACCCTTTGCTAGCCTTTCAGTTATCTTTTGAATAGAGGCTCTGAGCCTTGAAAA
TATTGCCTGGGAAAATATTAACACCCATT
Sequence 2019
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGCATACTCAATGTTTAGTTCC
CACTTATAAGTGAGAACATGTGGTATTTAGTTTTATTCTTTTTTATACTCAGTCCAGATT
TGTGGCTCACAGGCTGGGTAGATAAAGACTTTTGTGTCCAAATTTCCAACCAGTAGCTGC
TATACACACATATCTGGGCCTGCCGATTTTCCCATTTGCTTGTTGAAGAATCGACTTTTA
TGAAAGAATCAAGATCTGTTTATTTTCCTAAAACAACAGTAATGACGGAATCATAAGTAG
AAGTGGGTAACCATGGGTCCCTGAATCCAGCTTCTAGGCACACACTTTCTCCTGTTTCTC
CACAGTTAAAGNTTTGTGGGATAAGGGG
Sequence 2020
NTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTAGTCCCAGCTACTC
AGGGGGCTGAGGTGGGAGGATTGCTTGAGTCTGGCAGGTCGTAGCTGCAGTGAGCCCAGA
TGGCACCACTTCATTCCACCCTGNGTAACANGAGTGAGACCCTGTCTCAAAAAAAAGAAA
AAAACATACACACAGACATATATGCATACATACAAGGAGCAGCCACTACCCTTAGGGCTA
AGACAGTGTGTCCAAGAATGAGTCCCCCATTTCCCTACCACCACCCCAGGGCTTGATNAT
TCATACCCTGGTTTAGNAAAGGGGCCTCAGTTGTGGGCTCACTGGAATGGCCAGAGNTAA
TTGCNTGNATGTGCCTTCTCTGGGGGAAAGCGTTG
Sequence 2021
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAAAAATTTCAATTAACCCAAA
AAAGGCAGGAATGGAGGAACAAAGGAACAAAAAAATGACAAATAAAAAACAAATGACAAG
ATAAGACACTTAGAAAACAAGTAGCAAGATGGGGGATCTACAGCAACCTCATCAATCATT
ACTGGAATTGCAAATGGAGAAACTCCATGTGCAAAGCAGGGATTGTCACCAAGACCCAAC
TCCATNTACAGACACCCACGTAAGATACAAAGACAGGTTGGGTGTCTAAAGGATAGAAAA
AGATCCACAGTGGTCCAGGAGTGGTCCCAGCATTGTGGTAGGCACAAGAGTGAGGATCAC
TTGAGTCTTAGAGTTTTGACCTGTAATCCA
Sequence 2022
CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNGGCCNNGTNCTTCTN
TTTTNCATGCTTGATTTGTGAGGCTTATTAGAAAACAATGGCATTTGACGTTTCATTTCT
GACTCCTTGATTTCCATTGTTTTCAGGAAGTTTTCATCTGCTGAAGGCAACTAATCCACA
ATGAGCAAATTATCCTGCCCTGNAGGGTAAGCTATAATATCGGCCCCATGCTTCAGGAAG
AGAAAATCATGTGTTCAGGGGTGACTTTGAGTCAGCTCAGCATTCTAAATCAAACCGCAA
ACAGTANCAATCATTATTGGCATAGAACACCTTAAGCAAAATTGGGTCATTTTACNTAAN
GTTTTCTGGCTTTCGTGGGAGAATTAATTCTGCCC
Sequence 2023
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTGGAGACGAGGTCTTGCTATGTTGTTCAGGCTAGACTTGGACTCCCAGCC
TCAAGCAGTCCTACTGCTTCAGCCTTCCAAGTAGCTGGAACCACAGGCACACACCACTAT
AACCAGTTTATTTTACATTGNTCTTGTAATTCTGGTATCAGTGATTCTTATAACAATATG
CTCTCAATTTATTTTAAGCATGTTGAGACCTTAATGATAACTATTCAGAAACCATACTAA
ACATTTTGATCTTGAAATCTTCCATCGTTTTCCATCCTCTGCTTATGCCTCAGTTTATTT
CCATTCGCATG
Sequence 2024
CCGCGGTGGCGGCCGAGGTACCCTGCTGAAAGATTATTTCTAACAGGCTTGTAGAGAAAC

Table 1

GTCGGTTCATGTAAATTAGAAATTATGGGGCCACTTTGCCATTCTTCACACCTGCAATGA
ACAGGTGTTTATCTGCAGTTCTGACTTATCTCTTGAACTCCATTTGCATGTTATAGTGGG
ATGCAGCTGATGCCCTGTCCAGATCTTCTTCAGGCCACTACATCTATATATGCATTCATA
TTCCAGTGGCTGTGAGTGTTGGCTGTTGGTTGACAGAGGAGCTGCATCCTCCTGGGAGGG
AAACTGGAACTCAGCCTGGATGAAAAGCCACCCTGGTCCTGGGAGGTGAAAGNCATCTTC
CAAATGACAGC
Sequence 2025
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGACCTGACGC
TGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCC
AGGAACTATTTATAAACATCCTGCAGGAAAATGTGAAGTAGAAGAGACAGGGATATCCCA
GAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTT
CCCACCTTGCCCAACAGTAGAAAAACATAAAANAAAAAAAAAAAAAAAAAAAAAGTACCT
GCCNGGGCGGCCGCTCGA
Sequence 2026
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGACGCGGGAGTTTTTCAGAAT
CAGGCCTGCTTTGTCCCTAAATGCTTTCTTATTTCCCCAGAGCCCTTATTGGATTTAAGC
CCCATATCATATCTCACATACCTGAGACAGACATACCACAGTGAACCCTGCATGTCCTTG
TAAGTTCTTTTCCGTGCCTAGAAGTTGCAGAAGACCAAGGAACCTTGGAAGTGACTTACT
CTTTTGCCTCATAAAGTTGCTTTAAAACAGCCTTTATTTTAATTATTAACAAGGTATGTC
ACACATTTTTAAATTTTAAGGTTAATTTAGTCATTAATTCTGTCAAACAAGTGTTCTTTG
GAAGCTAGTTGTCTTCAATGTCTTTTACTTGGAGTTACTTGGAAGGTTTGCTTAA
Sequence 2027
GAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACAGATGTAACTGGGAGATACCTGAA
TGTGCAGTCAGTGCCAAGTGGAGGCCTAGGTAGGTTTATTTGGTTATTGGGAAAAGGAGT
GGCACCAGAAAATTGGAGGACTAGAGGACAGTTGGGTGAGAGCAGTTTAGTTTCTTTGAT
TCTGTGCTAACTTTTTTGGATATTTGCTGGAAAATGCAATTTATAGAGGATATTTGCTCT
TGGCTATGGAATGCATTTGCTGTTTCTTCTCTTTTATACGTAAGATACATCTGTGAGACC
CTCTACAGGAGATGAATTCCTGGTGTAAAAGAGTCATGTGAATATTGTGGAGTAATTATT
CTGAGCCAGGGGAGCAGGCTAATTAGCCTTCTGGGGAATG
Sequence 2028
AGGTACAGAGAAAATAAAACTGACATATTTGAGTAGCTTTAAAAAAAAAACTTTTTTTTA
AAAAAAGGCTGCATGATGAATCAGTTATGTGGCTTTGGACCAGTAAGGAGTCAATTTCAA
CCCAGACTGTTCTGACTTGGAAGGCCATTGTGATTCCATGTCTAACTCCAGAATATTGTT
TTCACAATACCATAACATCTTCTAAACTGAACAAAATACTTGCACGAAATAGTTGATTCT
CTTCTTCCAATTTCTTTTCATTCATGGAAAGGGAAAGAAGACACATTGAATTAAGCATCC
AACAAATATAAATACAGCATTAACATTTAAATGCTATCTCAGCAAATATTTTAAAGGGAT
AAACCAAAAG
Sequence 2029
CCNCNGCGGTGGCGGGCGCNGNCNCGGGGATCTCACTCAATCTTACTCCCTTGTAGAACA
GGCGATATCTTCACCATGCGCACAATGAAATCAATACTCANAGAAGGCAGATNATTCTCC
ACGAANCCNGANAACTAATAAATGAACAACTTGGGTGAAATGTCCCACCAGACGGTGTGA
TATTTAGTAGCCCAGAAAGCTGCCAAGGGGTTGAATGACACTATCTGAAGATATGAACCA
GTTTGCTCTCCATAGGGAGGATTTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGAT
TTGCTAAGTGTCTATGCCATATGATTCTGCTGTTTGCGTTTGATTTAGAATGCTGAGCTG
ACTCAAAGTC
Sequence 2030
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGTTCCT
CCAGTGCCCAGAGATGCTCTCCGCACCAAGCCACAGATGTGGAGGAGGCAGATGTGATAC
TCTAACAATGTCTGAAGCTCTGTCACTTGGGTGCTGAATCCTTTTCTATACTTTCTCAAT

Table 1

ACTGGTCAGGATTTTACGGTGTTGTCTAGGAGAGAGCAACCATGATGGGCATGCAATGCT
CAAGTTCACAGAAAAACATGAATAGCAAGACTCAAATCTGGCTGCCAGATTTCTGCAAGG
TATTTTTCTCTCCAAACGAGGTAATGTGTTTCTTATAACAGTCTTTATAATAAGGAGATG
TGTGTGGAAAAAAATCAAGTGTTAAACGGAGTCATGCAAATTAGCCATCTGGATAAAAC
Sequence 2031
CCGCGGTGGCGGCCGAGGTACGCGGGGGCCCTCAACTTCTGAGAGCTTAAGGTATTTGTT
CATGTTAGGCAGGTAATGTCTATAAACCAAAAGCTGCCACATACTATCTCTCTGCTCAAC
ACTTTACTGGATACTGGAGGATTTAAGGGAAGGAAAAAAGTGACCTTTTTTGCCTTTTTA
AGAGCTTGTAATCGGTAAAGGAGATAAAACTCACACAAAGGTCAGGGTATATTTTGTGCT
AAGCATATGACGTAGACATTTAAGTGCTGCCGTAATGCAGAAGAGGAAGAAGTGGTGTGA
TCTAGAGTAACATAGGTTTTGTTTTGTTTTGTTTTTGTTTTTTTCTTTTTCTTTTTCTTT
TTCTTTTTCTTTATCTAGA
Sequence 2032
CCGGGCAGGTACCCTTCACTCTTTAGGAGAAGGTTTGAAAAAAAACTGTGTTTCCTGTTG
AAGGCCAGTGATACCTGGCAGCTTACAGTTAGAAAACTCTATAACTTTATTATTTTCATT
TGCACTTAAAACTGCTATGAGTTTTTTAATGCAAAAAATAGTGATTGAGAAAGAAAAAAG
TGAACATATTTATATTCTTCCCCCTCAGAGAGAAACACTGTTAACATTTTGTGTATTTCG
GTCCAGGTTCTTTTCTGTGTGTGTAAGCACACATATGTGTTTATATTGTATAAAATAAGA
GATTCATGCTGGACATACATTGTTTGTAACTTCCTTCCTTTCCTTCCTTTCTTTCCTGAG
CTAGGGTCTCGCTCTGT
Sequence 2033
CCGCGGTGGCGGCCGAGGTACGCGGGAAGGTTAAGCATTTGTTTATTAAATAGCACAGAT
TTCCACCCCCATTTGGTTTATCTAGTTTCCATTTGTAGTAACTAATAGAAAAAACTCTAA
AATGCATCGGGAGGGAAACACATTTAAAGCTCTGGAGGCATAAAAACCTGCATATAAATT
CAGGCTGCACCGATTGATAAGTGTGTTACTTTCTCAATTTACTTATTCTTTCTTAACCTT
AGTTTTCTCATCAGCAAACTATCTTAATTACATGACTTTGTAATCCATAAAGCTTGCTTC
AAGCTCTTAGCATGCACACAGCACATCTGCAAAAGTAAGCATTTGCCACTTTCGGTTCTC
AGGATAACATATTCACCCTTCCCTACCTACTAGCAAG
Sequence 2034
CGAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAAT
GAAGAGTGGCTACTTTTATTAGATCATAAACAGTTTCCATGTTACTAACCAGACTTTACG
ACTATTAAGATAGCATCTTAACCTACGACTGTATAAATATTTTATGATCAATAAATCTTA
ATTGGTAGACTCTGAGAATAAAGATGGTGTTTTTCCAACCCCTCAATATTTGCATACGTA
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CATGAAACATCTTTATGAAACACCTAACAGGATATGGCATTACATGAAGCTTTTATAAAA
GCAATTAAACCAAAATAGCCTTTACCTCCTGGCAACTTAAACTCCAGCCAAATATTGATG
CAGACTA
Sequence 2035
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AGGAGAAAACTGCATCTTGCCCTGCGTTATTCCTACGCGGTGCCCAGGTGGGGTGTGTGT
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TGTGTGCCTTTGACCCCGGACTTAAGCAAAAAGCGTGGTCTTGGGCGTAGCTACGAGGTG
GTTGGTGGGCTCCAGGGCCTGCGTGCCCCTCGACGTGAGCGATGATTGG
Sequence 2036
AGAAGCATTCAAGTCAGGTAACGGGACAAACAAGAAAGAATGTAGGCAGGTAATTCTGGA
GACTCTGAGAAGAACAGTTGAGTGAACTCACTTCAGATGCATGTAGATTATTTGCACTCC
ANAATGTAGACTGTGGGCACTCCAGAGACTACCAGAATTGGGGGAACCACAGTGACTCAT
TAGGTTTCTCTGTTACAATCAGGCATGAGAAATATATATATTTTGTTGATGTTAGCTATT

Table 1

GAAATGAGATATATTGGAAACTGAGAACATTGGCTTTATGTTTAAGGAAGTGTGTTGTTT
TGGTAAAATTGCCATTCCACAAAAATTT
Sequence 2037
TCACTNCTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGGCGCCAGGAAGCCGCCAT
CGCGGATATTCAAAATGGACCAGGGAGCCGCGAAGTATGGTTCGTGCCAGCGCAGCACGA
ACGCCAGGCGCGCCGCCAGCAGGCCGGCGATCAGCAGGTCGGAAACGAGGGGGCCGGCGT
CGGGCAGCTGGCGGTAGCGCCGCAGCCACCACGCCACGCCGTAGGCGACGCACAGGGAAA
GGAACAGCAGTACCAGGCCCGTGGGCAAAGCCAGGGGGCCGATTTGCAGGGACAGCATGG
GCGCTCTCTATCACGTCGAATGGACGGCCATTGTGGCCCATGCG
Sequence 2038
CCGCGGTGGCGGCCGAGGTACAACTTGACAGTTTATAAAAATGCTAACCTATATCAACAT
TTTTCCCCACCAAAGTGTTCCCAAGGGCAAAGGTAAGTGAATACATGTTTCCATGCTTGT
GTCAGGGGCACACAGCAAGGGAAGGCAGAATGGGCATGACCTAGATTAGATCCCAGAAGC
CTTCAAATTCCTTATAAGACTTGGGACTGCATCTTAAAATAATATTGTTTTTTTTTATTC
TTTGATAATAAAAGAATGGAACCAAATCCTGGTTGTCTGATTCTTTGCCCAGTGCTCTTT
CTTATGTCTAACACTGCCTCGTCTTATGAATAACTCTGACATTACAGAGAAAGACTATTG
TTTGTTCAAGTTCAACACT
Sequence 2039
CGACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
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ATTCATGCAAGGCTTAAAACCTAGGNGACGGGTTGGCTTAAAACCTAGGTGACGGGTTGA
TAGGNGCAGCAAACCACCATGACACATGAATGCTTATGTAACAAATCTGCACGTTCAACA
CATGTNTTTAANAACTTAAAGTAAAATAATTTTTTTTAAAAATGCAAAGAAACCATAGAT
TAAAGAGTCAACAAAATAAAAAGAAAACAAAAAATNTTTGATTAACCCAAAAGACAGCAG
GAAAGAAGGAACAGAGATTAAAAAATNTGGGATAAATNCAAAACTAATAGAAAATTGATN
TAATTTTTT
Sequence 2040
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCNTNGAGACTGNCNTGGN
AGACTGGNNAGGTCACGTNTCTNAGACTTCTGGNGAGACCATNCANGGCTTTTGGCTCTT
GACANAGATNGACCACTGGAACACTGACNAANGAGAGAATTCTACTGGTCACANACAAGA
CTCTCTTGATCTGCAAATACCACTTCATCATGCTGAGTTGTGTGCAGCTGCTGCGGATTC
CTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGG
ACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCTCTTC
TGTCCCGCTGGAACCCATGGTCCACTTGAAGTTCCTTATGCTACTTTCACTGAGCATCCT
ATGAAA
Sequence 2041
GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
ACCATTCAAGGCTTCTGGCTCTTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGA
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TGTGTGCAGCTGCTGCGGATTCCTCTGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTC
ACCTTCCCTGGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGG
GGAGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTCCCTGAAGTTCCTTA
TGCT
Sequence 2042
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTAGCTTGCAGGGGTGCTATG
TGAAGATGGCGGAATTCCCAACGTGCTTCTGCAAAATTTTATGTATTCATCCCCCTCTGC
TCTCAGTAGGGTGTTACCACCTGCGGATCCTTTGCTTTCCCCGCTGGATACTAACAGCCT
TTTTCATAATTGCTAGCACCTATGGAATTGAGTGTTGAACTGAACAAACAATAGTCTTTC
TCTGTAATGTCAGAGTTATTCATAAGACGAGGCAGTGTTAGACATAAGAAAGAGCACTGG

Table 1

GCAAAGAATCAGACAACCAGGATTTGGTTCCATTCTTTTATTATCAAAGAATAAAAAAA
ACAATATTATTTTAAGATGCAGTCCCAAGTCTTATAAGGAATTTGAAGGCTTCTGGGGAT
CT
Sequence 2043
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGG
GCACAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCCACGAAGCCAGAAAACTAAT
AAATGAACAGTATGGCTCCACATAAGGTAGAGCGTGTCTGGTGCCCTGCCGTTTGGAAAT
GACCCAAAGGCAGGAGTGGAAGATGGAGTTTCAGCAGGAGAGACTGAGGATCTCAGAGGA
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TATGCCATATGATTCTGCTGTTTGCGTTTGATTTAGAATGCTGAGCTGACTCAAAGTCAA
ACTGTAAGTA
Sequence 2044
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CTCCTGAGTAGCTGGGACCACAGGCACNCATCACCACTCCCGGCTAATTTTGTTTTTCAT
AGCACATTACATTACCGATTTCCCAGTTTATAAGTAACCAAGATGCTCAAACAAGCAAAT
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GTGCATTTTTNTAAAGCCCATTTCAGTATTTGATAGCTCANATCATATANGAAGTTTTAA
TCAAAATGCTAAAG
Sequence 2045
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCCTCCCTATG
CATCTGCTGTGGGAAGTGTGGGTAACTCACAGATGATGCCACAGGGCATGTATTCAGGCA
CCACAGGCAGCAGTGAATGAATGAAGTGAAATGGTATTTATCCATTTCCTGGAAAGGTCC
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TGGTGACAAGGTGAGGTGGTCATCTATGCTGTCTTTATCAGTATCTGTCCTAAATACTGT
GCTCTGACATTTGATGCTAATATTCCATATTATCAGGGCTTCTGTGGTGTTTAGGCCTCT
AATTTTTCTCTTC
Sequence 2046
CGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTACCGGCGCCGCTGGCG
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AAGCCGCAGCAGTTGGCGGCCAGGTTCGGCAGGTCTCCCACCGTGCCGGCGCCATTGCCC
TGATTGATCAGTTTGATGGTGGCGCCGGTGATGCTGTTGACGCTGATGGAGCCGGCCATA
TGGTTGGTCTTGTCGCTGCCGTCCGCCATCAGCAGCGACACGTTGCCGGTGCCGGCGTCG
ATCTTCGCCGCCACGCCCTGCTTGTCGACGCCCATGCTGAAGGGTGGGCGATGCCCGGCG
TCGCGGTAGGCCGTCNTTGAACNCCCGTTTGGCCAAANCTTGTNCGTTTGGGCGGGT
Sequence 2047
ANGTACCGTTCCTNCAGTGCCCAGAGATGCTNTCCGCACCAAGCCACAGATGTGGAGGAG
GCAGGTCTGGACTTNAGGCAGACAAGGAACTTCAGAAAATCCTGGGGAGAGACAGCACAG
GGTAAGAGATGGCCTGTGAAAACTGAAGGCAATTTGGAAGGCATTTTTAAATTCCGTGGA
GCCACTGGAGAAATGTTTACAGGAATGATGCCTTAAAATTCCTCAGTGGTAAGATCTGAN
TACCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGGGCTGCAAGGNAATTTCG
ATATCAAGCTTATTCGATACACGTGCGACCTCGAGGGGGGGGGCCCCGGGNACCCANGCT
TTTGG
Sequence 2048
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGACCTGACGCTGGGAGGAGATGCTG
CCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAA

Table 1

ACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCA
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GTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCC
CACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGGAA
GTTTAATGGGAA
Sequence 2049
CCGCGGTGGCGGCCGAGGTACTTACAGTTTGACTTTGAGTCAGCTCAGCATTCTAAATCA
AACGCAAACAGCAGAATCATATGGCATAGACACTTAACAAATCCAATGCCTTCCAGGCAT
CTGTTTCCTGTTGATGAAATCCTCCCTATGGAGAGCAAACTGGTTCATATCTTCAGATAG
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TTTCACCCAAGTTGTTCATTTATTAGTTTTCTGGCTTCGTGGAGAATTATCTGCCTTCTC
TGAGTATTGATTTCATTGTGCCCCCCGCGTACCTGCCCGGGCCGGCCCGCTCGAAATTGT
TATC
Sequence 2050
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATAAATACTTTC
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AATAAAAACTAAAACAAAAAATTCAAACATCCAAAAGTTAACATCCAAAAGTGTTGGTTT
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GACTTAACTGAGCAACTCCTAAGATCCAAGTTCCCTTAAATTCCTACAGGCAGTGGTCCC
ACCAACAAAGACTTCTCTACTCTTCCTTTGCCTCCAGATGCTCAGACTTGGGCTTCTGGT
ATTCTGAAAGGCATCCTTGTTTATTTTCCTACCAGAGATTGTTGGATTTGCCC
Sequence 2051
AGGTGGCACGGTGTATGAAGGCCTGTGTTTGAAGACTTAGGTCAGACCTTTTGCCCGCCT
TTCCCCTATGCAGCTCTATGCAACTGTCTGTGCAAGGTCCTGTAATTTGCGTAGGACGCC
TTGACACAGTCTCTGCTTATGGACGCTTTACAAAACTATCTTGCAAAGAAATAAGTACCT
GCCCG
Sequence 2052
ATATATTCCACCCTCATGGCAAATATGAAAGATTTCCATTGGATGAGACACTGAACTCAG
TAACCACAACAATGNGGGGCATAATGCAATGAAACTAAAAACATATTCTTAGGAAAGAAA
AATGAAAGNGAGGAAGTAAGAAAATTTTTTT
Sequence 2053
GTCCGAAAATTTTGGGGTAAGGCTNCTCAACTCCGTCGNGTTGGTGTCCGGGTCTCCGTA
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GGTCTCTTNACCGGTGTGCNAATTCAANGGGTCTCCTTTNANAAGNCNCTCTTGCAATAT
AGGNNAAAACCAAATCCAGTCTANTTCNAGNGGGGGGNCCTNCCTGGCTGGGCAAGGNAA
GNCNCCGTCTCCACCNCCTTGNAAGCCCCTTCAACCCCNGGCTTTTTAAAGTTTTTNCAA
TTAANANAAAANCAANGGCNNCCCTTTGGGTGGNTGCTCCTTTTTTGCTTTACCCAAAAN
ANGTCCCCAAGGGNTTTCCGGTTGGNTTATTTTNTNCTTTAACTCCCCATCCAAAGNTTG
TTTCGAATGNGGGAAACCTTNCCCCAAGGNCCGGNTTTATGGTANCCCAAGGTCCTANAN
AANCCNAACCAAGAAAATAACCATTTTGGNTTATCTANCCCCTTTTTTTTTTTGGNAANA
ANATCCNAAAANAACATCCCAANGGTTCGTNTTCAAGGGTGGATNTAAAAAGGNCCAAAA
ATAANAACCAANAAAAACCAAAAANCCCCAANCCCAANAATTTCCCTTCAAAAAAACCCT
CAAAGNCCTCCCGGNCCNGGTAAGGGGGGAAATAACCCCCCCTTTTTTTTNCCCCTTTTC
CCCCGGCNGGGTNNAACCCCCTTTGGGCCCCCCCCGGGGGGGGNCCCGGGGGGGCTCCCG
GTTCNTTTCNTTTAAAGGGNAAAANCCTTTATGGNTTTGGGGGGGAAATTTCCCCCCCNC
NC
Sequence 2054
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGA
CAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCCACGAAGCCAGAAAACTAATAAA

Table 1

TGAACAACTTGGGTGAATTGTCCCACCAGACGGTGTGATATTTAGTAGCCCAGAAAGCTG
CCAAGGGGTTGAATGACACTATCTGAAGATATGAACCAGTTTGCTCTCCATAGGGAGGAT
TTCATCAACAGGAAACAGATGCCTGGAAGGCATTGGATTTGCTAAGTGTCTATGCCATAT
GATTCTGCTGTTTGCGTTTGATTTAGAATGCTGAGCTGACTCAAAGTCAAACTAGATGGA
AGCATTCGACTGCCGGCACAAAGATGTTTGGTG
Sequence 2055
TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTAGCTTGCAGGGGTGCTATGT
GAAGATGGCGGAATTCCCAACGTGCTTCTGCAAAATTTTATGTATTCATCCCCCTCTGCT
CTCAGTAGGGTGTTACCACCTGCGGATCCTTTGCTTTCCCCGCTGGATACTAACAGCCTT
TTTCATAATTGCTAGCACCTATGGAATTGAGTGTTGAACTGAACAAACAATAGTCTTTCT
CTGTAATGTCAGAGTTATTCATAAGACGAGGCAGTGTTAGACATAAGAAAGAGCACTGGG
CAAAGAATCAGACAACCAGGATTTGGTTCCATTCTTTTATTATCAAAGAATAAAAAAAAA
CAATATTATTTTAAGATGCAGTCCCAAGTCTTATAAGGAATTTGAAGG
Sequence 2056
CCGCGGTGGCGGCCGAGGTACTTCTGTGACATGTATCACCAACTCACACAGTGATTCTTA
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GGGGCCAGGATTAGACCTGATCATTGAGAAATGGCAGATGGTAAGGGAAGGTCAGTCGCA
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Sequence 2057
CCGCGGTGGCGGCCGAGGTACTTACATGGGGACCGCCAGGGGCCTCGAGAATCGGTATCC
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TCT
Sequence 2058
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ATAATAAAATCATATTTGTCTCTAGTGGAATGGATAACTATGCCTAAAACTGCCCCTTTG
AAAAGCAACTAGAGAGATAATTTCTGAAGTGTTTGTCCCTACCTGAATGTGTGGCAAAAT
TCTAAACTCCCTGAAGTGTGAAAGTGGTTTNCAAGCCACATGCACATCCAGTTGTGGTAA
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GCTCTAGAACTAGTG
Sequence 2059
TCTCCGGCTTCTATTTTGCCCACCCGGAGTCGAAATACTTCGTCGTCGGCAAGATCGGCA
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GGCT
Sequence 2060
TCTCCGGCTTCTATTTTGCCCACCCGGAGTCGAAATACTTCGTCGTCGGCAAGATCGGCA
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GGCTGGCACCGAATCTGTCGTAGTGCCATAATATAAGCACAAGGCGCGCGGAACTTATCG
CGCGCCGNAGCGCACTAACGCAGTATGCCGGTCGGNATGCTGNATGCCCGNTCCGGCCCG
TTCCCTGACTGGCTAAGGAGGATATATGGCAAGCAATTTCAAACTGAAACGCTGGCAAGA
TCAAGTGATCCTGTTGCTGGGCCTGTGG
Sequence 2061
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ATTCCTAGCTTGCTTCATGCTCCTGGTCTTTGCCTACTCAAAACAATCTGTCCTCCCCAC
CCTGTCATCTCTGTTCAGAGTAAATACCTCCCTCCCTCTGCTTTTGCCCTAAGTTATTTT

Table 1

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GCGTAAAT
Sequence 2062
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AATTCACTGAGGTTTAGAGATGTTAAAATACTTGCCCAAGTTCCTGCTTGCCCAGATGTG
CCTTTGGGAATGCATCTTCTTTCTCAAGCCTCCTTACAGGGGTTGTAGTGAAGATTGGAA
NGGGATAANGCAGGTG
Sequence 2063
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CCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACA
TCCTGCAGGAAAATGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCNAAACAT
CAAGAGAAGATGAGAGGAGTCTATATGTCAANAATACACATTTCCCACCTTGCCCAACAG
TNGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGC
AATGTGATGGTGTTTGGA
Sequence 2064
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CTTTTTCTCCCCGC
Sequence 2065
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GGGGCAGAGGACACTGAGTCTCCTCCAACTGAGTCAGGAGTGGCTCAGGAGCTGACACTG
GCCTAAGCTTGCAGCAAAGGGCCCCTACGTACCTCGGC
Sequence 2066
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AGCATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAGGTAGCACAAGTGAAGCAAAGA
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CTCAAAATGTGTACCTGCCCG
Sequence 2067
GTACCCGGGACGCTGGGAGGAGATGCTACCACCTAGGTTACTTGTAGGACCCTATACGGC
AACCTNCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGTGAAGTNGAAGAGA
CAGGGATATCCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTC

Table 1

AGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAANAAGAGAAAAACATTAA
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Sequence 2068
AGGTACTGACTAGACAATTGAGTCTCAAAGACGATAATTTATCCAACATAATTGTGTGAA
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CTTGGTTATCTAGTGTTTTGAAATAAACAACTCCAAAACTTCGTGGCTTGAAATAAGCAT
TATTTATCTTATTACAGTTGTTTGGGTTGATAATTTAGACAGAGCTTAGCTGGGATGGCT
TGTCTTTGCTCCATGTTATGCTGACTTGACTCACTCATCTAGTTGCAGTTAACTGGCAGG
GCAGCTGGAGCCTGGCTGGTCCCAGATGGCCACACACTTTGTGGCTGGTAGTTGCCTGGC
ACTCATAAGGTGCCTTCATTTTCCTCCACCTAGCCTATCCAGCAGACTATCTTGGGCATC
CTGGGCTTCAAGAAGAAAACCGCGATGTACCTGCCCG
Sequence 2069
AGGTACGCGGGGGTTTCCTGCGTTTGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCTG
ACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTNCTT
TGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGTCAGAGATGGGAAGAAACAAGAA
CTTTGACATGCTTGGTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCA
GAATACACATTTCCCACCTTGCCCAACANTTNAAAAACATAAGAAGAGAAAAACATTAAA
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ACAAGGTAATTAATGCCCTTGT
Sequence 2070
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CAGATGTTTGTGCTAGAAGCTGTGGGTTTACGTCTCCTTTGTACATGTGTTCCAGACATA
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TCTGAAATGAGTGTTAGTAGAATCATCTTTAGAGGAGGTTCCAAGGCATTGAACTGAGAT
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GCCAAGGANAGAGTGGGCATGAATGATTTC
Sequence 2071
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AGGTATGCAACCTCTTTGGGCCCCAATTTCTTTCTGAAAGAATCAATTCTAGTGCTCAAA
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GCCTTAAAGTAGAAAGTATGAAACCTCCACTCTTGTCTTGGCTTTCTCTCTTTCCCTTGC
TTACTCACTCTATCTCCTTCTCTCTCTNCCTTTCTNCAAATGTCAAGATGTAATCTCTTG
CCTTAAAATTTCNNNAAATCATCAACACCCTTGTNAAACACCTNCCAACCTTAGTTN
Sequence 2072
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GGCGATATCTTCACCATGCGCACAATGAAATCAATACTCAGAGAAGGCAGATAATTCTCC
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GCCCTGCCGTTTGGAAATGACCCAAAGGCAGGAGTGGAAGATGAAGTTTCAGCAGGAGAG
ACTGAGGATCTCAGAGGATTTGCTCTGGGATGCAGAGACGCTTGCCTATTTGCTAAGTGT
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AACTGTAAGTACCT
Sequence 2073

Table 1

CCGGGCAGGTCAGCAGCTTTGCATGTTGACAAATCCGCTCTCTGCTGCAGATGCCTAGGG
GAAGTTGCAGACTTAAATTTTCTTTTGTAAAATGGGGGAACACAAACAGATCTTATGTCA
CACTGGTTACTCCAGAAAAAAAAAAAGAAAAAGAAGGAAGGAAGAAAAGAAAAAGAAGGA
AGGAAGAAAAGAAAAAGAAGGAAGGAAGAAAAAACAGAAGGAAGCNNAAAAAAAAAAAA
AAAAAAAAAAGGTTCCT
Sequence 2074
CGAGGTACTTCCGTGAGATATAAGGCTGATGATAAGGATTGGGGTAAAGAGTTGATTCGG
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GGTCAGTCTCAGAGGGTTGGTCATCTCCCTCTTGCTTCAGAGACACAGCCTGGAATCCTT
CAAAACTCCCAATTGTTGACATTTCTTCAGCCTGACTAGGCTGGTCCTCAAGGCTCTTCT
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TTCACCAAGTAGGCTGAGAGTTACACTGCCACCCTCAAATAGTCAAAAAAAAAAGTACCT
GCCCGGGCGGCCGCTCTAGAACTA
Sequence 2075
CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG
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ATCCCAGCACTTTGGCCAGCCTAAAGTAGGAAGATCATTTGAGGCCAGGAGTTTGATCCC
AGTCTGAGGAACATGGCAAAACCCCATCTCTACTAAAAAAACGAAA
Sequence 2076
GCCCNGCAGGTNCCCTNGGGACACCCTTTTTTACCATGATCCATTTTTTGAATACAAAGA
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TGCTTACTTGTTTTTGTGTTTTTTTTATATTAAACTAAAATTTCATTCACTANTAAAGTT
TTTTTTAAAGAATAAATTGCTTGCTGGATGTATTGAGGTAATAAAAGTTTTCCTTTTCCT
TTATATGAAGCAATATAGGATATTAGCTTTATGAGGCACTTGCCAGTAAA
Sequence 2077
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TGATCTCAGGGACACTAA
Sequence 2078
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AAAGGGGTAGCAAAAATGAGAAAGAAGGCATGAGGCACAGACATTGAAAACTAACCTGTA
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Sequence 2079
CCGCGGTGGCGGCCCGAGGTACTGCAGGAAACCATGTTGCCAGCACTCTCCTAGCCCAAA
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Table 1

AGTCCAGTCACCCCGCAGGAACCAGAATCTTCCCATGGATATTTAAACCCAATTAGAAAT
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GGATCTTTTGGCTCTCCTGGTGATTTTTATAGAGTTTTTTTCATCGTTAATCCATTTATG
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TTAGCATTGGATAAAAGTCTTCCTTATTTTTTACTGNGACCTCTTTCTTTCTTTTGATCT
CTAATATTTAGTCGCATGGGAACACCAACTGTTAACTGAATTTCCATTTTTCCAT
Sequence 2080
GGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGGGGGTTTGTAGATGGAAGGA
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AGAGCTTGCGCACCTTTTTCCTTGCCATGTGANGAGCCANGAAGCCGGCTGGCTGCAACC
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Sequence 2081
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CTGNTATTTTTTA
Sequence 2082
CCGGGCAGGTACAGGAGAGTTCCCATAGACTNCTGCCCCCTNCCACAGACAGACTACCCT
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CATGACTCATTGTTTCTCTGCCTTTCCGTGTGTTACAGGTGGGCTGATCCCCCTGCAGCC
AGTTTCCCATAAGCAACTGACTTCCAACTGGGAATGTCTCGGGGGATAATGGGGGTGGG
Sequence 2083
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GACCATCAGTATAATTTAGCTGAATGAAATAATGAGATATTTTAGGAAGAAGAACATTGA
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GTGGATATGTCTTAAATAAGTCAGGTTGTGTCAAATTATGATGGATGATGATGACTGCGA
GGCAGGAAGGAAGATGAAAAGGAGGAGGCATTGAACACTAATGGTCACAGGGAGCACCCG
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Sequence 2084
CGAGGTACTCTGACATCATCTGACATGGCAGCTCCCCAGCCATGGTGGTGGTGATAGAAA
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ACATGTTTTCATGTGTTTTATATTCCCTTAACAACCCAATA
Sequence 2085
CCGCGGTGGCGGCCCGAGGTACTCCACTTGTAACTGCTTCTCCCCTGATGCCACCACTGA

Table 1

CCTCTGTAGCCATGGTTCTGCAAGTTCTCTAATTTTCTGAGCCTCTGAGTCACTGACGAA
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CAGCAGGTAGGCGTTGGAATTGGTCTCATAGGAACAGTAGAGGCTAGGGATCTGGTAGAG
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GAGCCTTTCATATTTCAAGACATTCCTGGCCATCCTCTTATTATCTGGGCTGTAGAGAAG
AAACTCCCGCCGCGTACCTGCCCG
Sequence 2086
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Sequence 2087
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TCTATTCTACAATTAGAAAAATACCTTGGGAGAACATTGCAAAACAGTATTTGAATNAGT
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GGGGGGGCCC
Sequence 2088
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GGCCTGCCATCACTGGTCACCAAATTGTCGGCCTTCTGTACCT
Sequence 2089
GATCAGCTTGGATATACACTTAGGTCATAATACTAAATATGAATATTCGTTTTTTNCCAT
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AGTATAAATTCAGTATTTTTTCAGATCCTACAATTCGCCTGGTTNGGTGTATCATTAGNC
TATAATAAATNNNNGTGGAATGGCAATTTTACCAAAACAACACACTTGCTTAAACATAAA
GCCAATGTTCTCAGTTTCCAATATATCTCATTTCAATAGCTAACATCAACAAAATATATA
TAT
Sequence 2090
AGGTACAATATAGGCAGACAGTTTGCCTTCAGAAATTCAGAAATGCAGCTTTTGAGGGAG
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AAAGGAGGTTGCCGTATAGGGTCCTACAAGTAACCTAGGTGGCAGCATCTCCTCCCAGCG
TCAGGTCTAAGCACACAAGTTCTTCCTTCCATCTACCCCCGCGTACCTGCCCG
Sequence 2091
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Table 1

AAACTAGAAGGAAGGAGGTGAGAGGAGATAGGGCTCCAGAGTGGAGCAAGCCCCTTCTGT
CCCCGTGAACTTCCTGCCGGTGCATGGGTTACCTCTCATTAAATTTAATAGTACCTGCCC
G
Sequence 2092
AGGTACTGTATATAAATACTGAAACAAAACAATGGAAAAAGCAAATAGGAAATAGAGTGA
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CCTTGNCNGAAATTGGAATNTACTTTCTTGAACCTCAAGGGGAGAGAAAAAGTAATTTGG
GAACAAACAGTTCCCTTGCCCGGC
Sequence 2093
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ACAGCCCGCTCAGCGGACCTTTCGCCAGGCTCGGTGGACCTTCTCCGCTGTTCTCCTCAG
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TCGGCCGNTCTAGAACTAN
Sequence 2094
GGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAACTAATAATGCATTTCTAAAGGTGAAA
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GGATTTTCAAAACTACCTATTTATGTATAGGCCTTTAGATCATCTGATGTTGAATACTCT
TTAAGTGATCTAAAGGCCTACATATAAAAAGGTATTTTTATTAAATTCTGGAATTAAACA
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Sequence 2095
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ACACATTCTGAGAGATGCCATACAATGCTCCAGGCAAACTTATAGAAAAACAGGAATGAG
TGATTTTATACGGGATGTGTTTCAGCTGTCCAATTCAAAATAAATCACGTCCAGGTGCAT
TCTTTCCTAATTTGTGACCCAAACTGCTTGCACTTTATACATTAATGAATTATTTTTTAA
AAAGAAATTAGCTCTATCATGAAGACAGTGCTATCTAACCCTTTGTGGTCTTTCTCCCTT
AAAAA
Sequence 2096
CGACTACTATAGGGGCGAAATTGGAGCTCACCGCGGTGGCGGCCCGTCACGGTGATGTTG
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CTGGTGCGCGCACTGGCTTGCCAGTTCCAGCCCACGTTGGCGCCGATCTGGCGCGTGCGG
TCTTCGCTGCCGAACTCCATGCCGGGCAGCAGGGCGCTGTCGATGCCGCTGGCCGTTTGC
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Sequence 2097
CCGCGGTGGCGGCCCGAGGTACGCGGGTCCCTGAGTTCAGAACATAGGAATTAGATTGAT
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GATGTGCAGCCACAGTGAGCTTCTGAACATTTCTTCTCAGACTAAGCTCTTACACACAGT

Table 1

TGCAGTTGAAAGAAAGAATTGCTTGACATGGCCACAGGAGCAGGCAGCTTCCTGCAGACA
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GCCAAACAAGCACACTCAATGTGCTTTGCCCAAATTTACCCATTAGGTAAATCTTCCTCC
TCCAAGAAGAAAGTGGAGAGAGCATGAGTCCTCACATGGAAACTTGAAGTCAGGGAAATG
AAGGCT
Sequence 2098
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CACTCCACTGATCAGCTATGATACTTAAATGTTTTAGCTGTGAGCAAAATAATATGCATT
CTCAAAGAGAGTATCTTCAGACTCCAGTGGCCGAGAATCTAGAGTTAGCAATGGAAAAAT
TAGTCTCGGGCTTCTGTTTCTGCCCACANTTTTCAAATTAAGAACAATGTGTTTGCACTT
AATGAAACAA
Sequence 2099
CCGGGCAGGTACATGTCAAAGGAAAAACACGTGAAAGATGAATTCAGCCAAACCCACCAG
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TCGTGATGACCTGTCTCTGAGGCTCCAGACAATAATTTCTAACTGCCAACTGGAAATCCT
TATATGGTTAGGCTGCCAACATCCCAGGGAACAGGACCAAAATAAAAAGCATCACTCATT
ATCCTACTGCAATTTTCCTCTTCCCTTTGTCAAATGGGAATGATCTTTACGATCATGATC
CTTTATTGCAACCAGGACAGAAATCATGAAGTCATCTATGGCCCCTTCCTCTCACTCCGC
CTCCAATTAGTTGTCCTATCTGCCCCTTCCGTTCTCCTTCCATCTCCATAATGCCCAAGC
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TACCTCTATCGAGCCCAANGGTATTCATCCTTGNAATCTCTCTAAATGAGTTCCCAGCTG
NCCACCCCACGAGACTAGGAGTTTGGTAAGGACAGAATCACTCATTTCATCCTTGNACCT
0
Sequence 2100
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CGCAATGTGCAATCTCTATCTTCTGTGTTTCGGGGTCAATTGTCTAACAGGAGCCACAGG
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GGACAGATACTGATAAAGACAGCATAGATGACCACCTCACCTTGTCACCACCTGAGCGAG
GAGCCCTTAAAAGATGGGTTTCC
Sequence 2101
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGTTCAAATAGT
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GAGCAAGGAAAGCAAGTTATTGGAGGCACATGTTAACACATAAAATATAAAATTATATGA
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CAACAAAAAGCAAGAGAACCTGATCAAGTGGGTGACCTGGCCATGGTGCTCTCATCAGTG
GGGACCCAAATGCTTATGTGGACTCACCAGGTATCGAATTAGACATGAATAGGAGTGTTT
GTTGTGATCCAAGAAACTATATAATCAAATGAATACAATGAAACTTTAAAA
Sequence 2102
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CCTGCTTTTTAAGTAATATGTGTTTTGCAACAGGAGAGGGTTTTCTGAGCTTTTAACACC
AGTAACCCTGAACTTCTTCCAAAATCCACACCTTTTATTCCCCCTTTTCCTTGTCTCCTT
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Table 1

CTGAATCTTGTGCTCTAGCTCTACAGCCCAGTGAAGAAGCAATATATCTTTAATTCAGGG
CTTGCCTCTTGCTTTCCAACTCTAACCTGAGAGCAGTGCTACTTTTGTAATTGCAGGTCT
AAATAACTTAAGCGTATATACAGAAGCCAATCACTGATCACTTCCATTGCAATGAGGCAT
CTGTTGTCAAAGAAGGAAACCATTTGTCAAGTCCCTTATAGATATTGAATCTTCAAACCC
AAATCTGGGGATGTTTACATTTCT
Sequence 2103
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TTCGGCCAGCACGGCGCGCGCGCAGGCCAGGGTTTGCACGCGGCCGTANTGTGCAATCAG
CTCAAGGCAAGCCGCGTCGCCCAGGATGCGGTCGACCGACGGCAGGCGCACGGTTTGCCC
CGTCGTCATGCTGGCTGGCCCTCGCCGCTGTCGTTCTTCCCCAGCCACAGCAGCGGATTG
CCGCTGGCGCGCTGGTAGCCCGCTTCGCCACCAACAGGTCGAGCATAAGCTGGCCAGATC
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CAATCGTCGCANGTTTCCGCGCGCGCCACCTTCTTCGGATCATTCGCCTTGTTGGGCAAT
TTGTCGTCCTTCGCCGCACGGGGTCGAACGGGTTTGCGTNGGCGCTCTAAAACTAGTGGA
TCCCCGG
Sequence 2104
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GAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGT
AGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAAT
GGTAAGCCCTTGGTTAAATTTATTGACTTCATTTATGTATCTCACAACACTTCTTTTCTG
TTTTAGTTCTAGGAATAGAAACTTACTTTTGGAAATACAGTACCTGCCCG
Sequence 2105
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GAGGTCCTGAGTCTCTCTCTCAATGAGCCCATCATATTGGCTTAACCAAAGCCAGTGGTC
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GAGTGTTGAAACCTCAGGGTTATAGACTGGTGTATCTGTGAGAAAACCACAACAAGTATG
GTATTTGCCCGCGTACCTGCCCG
Sequence 2106
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GAGAGTTACGGAAAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAAA
TGACTGATAGATCCTTTTTACAATATTCTAGGGTAGTCTGTCTGTGGGAGGGGGCAAGGAG
TCTATGGGAACTCTCTGTACCT
Sequence 2107
CCGCGGTGGCGGCCGCCGGGCAGGTACCATGGCCAAAGCTGAGGCAGCCAGGGTGGGACA
GGGGCCTCCAAGCAACACAGCAGTGTTAGCAGTTCACCTGGACCTGTTGATGAGCTGTCT
TAGATGCACGAAGGCAAGAGATGTCTCATCTCTCTCTAAGATCTTAGATCTTAAGTGCAG
AGGGAAGGCAGCTGGGAGTGTGGACGGCAGCCACAAGGGAGAAAAGTGCAAGAGCATTTA
CAACCAGAAGAGAAGCCGAGGGGACATGATGGCCCATGGACAATGTAGCCATGGACAGTG
CCCTGGGAGGCTGGTAAGGGGGGTGCTGGGACTGGTGGTGAAGAGATCATTTTTAAGAAA
AAGAATCCCGCGTACCT
Sequence 2108
CCGCGGTGGCGGCCCGCCCGGGCAGGTACATGCCAGGCACAAACTGGAGTCACAGATGCC

Table 1

ACACTGACTATCACATTGTCATCATACTCAGAGAGAGAAAGGTGTATACACCCAGTATTT
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TTGGAAGTCAGTTGCTTATGGGAAACTGGCTGCAGGGGGATCAGCCCACCTGTAACACAC
GGAAAGGCAGAGAAACAATGAGTCATGGATTTGAGTGCAAACAAGCCCAGTCCTGCTACA
GAGAGTTACGGAAAAAATCTCACTGTTGAAGAGAGACATCTATAAGAGAGGTGAGGAAAA
TGACTGATAGATCCTTTTACAATATTCTAGGGTAAGTCTGTCTGTGGGAGGGGGCANGAA
GTCTATTGGGAACTCTNTTGTCCTNGGCCGCTTTTAAACTAATGGATCCCCCNGGCTTGC
AG
Sequence 2109
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TCAAAATTACCTCTTAAGTTTTCCTACTAAGTTTATGGCCCCAGAGGCTTCTACTCCAGG
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Sequence 2110
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CACTATTACTTCCCCTTTGGTGACGTGAAGGGTTGGAACCCCAGCATCTCCCATTCCCGA
TGAGTCATAACTCACACACTGCACAAAACGCAGTCCACATAACTGA
Sequence 2111
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TTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGA
AAATGGTAAGCTGAGACCAATGATGCTGACCTCCCTCAAAAGCTGCATTTCTGAATTTCT
GAAGGCAAACTGTCTGCCTATATTGTACCTTGCCCNNATCAAATTTT
Sequence 2112
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GCCAGGAAAGTGTCATGAATCAAATTTCTATTTTAAGAATAGTATCGAGGCAGCAATGTC
AAAGTTTGTTTAGAAAATAGGATGGTTCCTGTAATCCCAGAACTTTTGGAGACCAAGGCG
GGAGGATTGCTTGAGTCCAGGAATTTGAGTCCAGCCTGGGCAACATGGGAGAGGACCTCA
TCTNTNCTAAAATTTNANTNNTTNTAATAAAAGGTTCCCT
Sequence 2113
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AGAACCTAAAACTAAAATAAATAGGAAGGAAGGAAGGAGAAAGAAAGAAAGAGAANGAAG
AAAGAAAGAGAAAGGGAGAGAGTGAANNANAAAAAATGGAAAAATAAGTACCT
Sequence 2114
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CTGCCCCCTGCTAGGCCTGATGGATGATCTGATAGAAAACTGGCTTCAGCAAGGAGCTTC
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ATGCTCTTTCCATTGCTTTTCCATACCACTGCTTT
Sequence 2115
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Table 1

AATAAATAAACTATGGCTATATGCAACAACATGGATAAATCTTACCAACAATGTTAGACA
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Sequence 2116
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GTGAAATGTCCCACCAGACGGTGTGATATTTAGTAGTCCAGAAAGCTGCCAAGGGGTTGA
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TGCGTTTGATTTAAAAT
Sequence 2117
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CAGTAAACCAGAAAGCAAAAAAAGGTCAAGCACGTGTGTTTGAGATCCAACTCTAGTGTT
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TTGCCCTCTTTTCTGCAGTTGCATCTTTGTGCATAAAGATTCTCTCTCCAACCTGTGCAA
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TTCAACTCTAAACTAGAGTAATTTACTAACTGGTATTTATCACTTTCAAATTCTTCATTA
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Sequence 2118
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TGATAANTATTTTTTTT
Sequence 2119
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CCGGGTGTTTGTAATTTCTATTTCCCAGTGCAGGTGTGGTTTGCATGAGCATGTTCACTT
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Table 1

GGCCCGAATGCTTAACAATTGGTATTGTTAGGTTATGGATCCCGGGGGGTGGTTGTCCT

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Sequence 2120
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CAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTC
TCTTGATCTGCAAATACGACTTCATCATGCTGAGTTGTGTGCAGCTGCAGCGGATTCCTC
TGAGCGCTGTCTATCGCATCTGCCTGGGCAAGTTCACCTTCCCTGGGATGTCCCTGGACA
AGATTTTACTCCCATAACCCAGGCAGAAGTACCT
Sequence 2121
CGAGGTACTTCATACTACTTTAAGTTACCTCCTATTGGGGGCATTATAAATGGGTAAGCA
GAGAACATCATGGAAAGACATGGAGCTTAGTATATGCAAATGTTGAGTTACTCAGTGTAA
TGTGTGAAAAAGGAGTTTCATAAGTTTCGGTCAGGGAAGAAGGCAGGGTCAAAATTTCTG
CTTGAGAGTTTGGGAGCTTGGGGAGACTTTAAACAGGGAGCAACACAGCGCCTCTGTACC
TGCCCG
Sequence 2122
CGCCCGGGCAGGTACTAAAACTATTCCAGGAAGACTTTAACTTTTGTTGATTCAAAAGGA
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CCTGTGGTTCTCATCTACCCTAATATCCAGCAAGTGGTTCATTGCAGATTCTGATTTATT
CCATCCTACCTCAACCCTATTACCAACTATCACCACCCACCACCCGCCACCCAAACTGGA
AGACAACCANAGATAAATCCTCAAGAAA
Sequence 2123
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ATTAATGTAAGTGTTATACATATTTCAGGTTATAATTTTGATTACAATTTGAAGACATAA
ATACAATTGGTTTAGTTATAAAATTACACTACTTACTTGCTACTTTATAACTGCTCACTA
CCTCCTTAGTGGAACCCAGATTTTCTCTATGATTTGAGAAAAATTACTCCACATGTTGCC
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ACCTTAGCACGAAAAACTCTTCCAAAAAGCTTTTTTCACTTTTCAATAGTTCCTCTTTAC
ATCACATTTATAATCACTCACCAGCAATCTCTTTTCCATGCTTGATTTGTGAGGCTTATT
GAAAACAATGGCATTGACCGTTCATTCTGACTCCTTGATTTCC
Sequence 2124
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TTTTAATCTCTTTGCTGAGTAAGAATAGTGCCTACATGGTGTGGGTGATCATGTGTAAGA
CTCTGATGGGCAAACCTGGGGCCCATTAGGAG
Sequence 2125
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CACCAGCACCAGGTTGAGCTTATTGAGCGAGATGAGGTTAGTCTTCATAAGAAGCTGAGG
ACTGAAGTAATTCAGCTAGAAGATACATTGGCCCAGGTCCGCAAGGAGTATGAAATGCTG
AGGATAGAATTTGAGCAGACCCTTGCTGCCAATGAACAAGCAGGCCCTATAAACAGGGAG
ATGCGCCACCTCATCAGTAGCCTCCAGAATCACAATCACCAGCTGAAA
Sequence 2126
CCGGGCAGGTACGCGGGAATGAGAGCCTACAGTTGAAAGCACACTTGGATGAGGCTCGGA

Table 1

CCCTGCTTCATGGCACCAGAGGAACCCACCAGCACCAGGTTGAGCTTATTGAGCGAGATG
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AACAAGCAGGCCCTATAAACAGGGAGATGCGCCACCTCATCAGTAGCCTNCAGAATCACA
ATCACCANCTGAAAGGGGAGGTCCTGAGATATAAGCGGAAATTGAGAGAAGCCCANTCTG
ACCTGAACAAGNACACGCCTGCGTTANT
Sequence 2127
GCCCCGCGTGACGAGCGGACTTGCGTCCGGCGTATCGGCGATTTCGCGGTTCTCGTTCAG
CAGGGAAAACAGGCGTTCCATGTCGGCCAGGCTTTGCTTGATTTCGCGGTAAATGACGCC
CAGGAAATTGAGAGGGATGTACAGCTGGATCATGAAGGCGTTCACCAGCACCAGGTCGCC
CAGGGTCATGCTGCCGTTGATCACGCCCACGGTGGCGCGCCACAGGATCAA
Sequence 2128
GGGGCCATTGAGACTGCCATGGAAGACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAG
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ACCTTCCCTGGGATGTCCCTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGG
AGTCCGGAGGAGCAGTCTCTTCTGTCCCGCTGGAACCCATGGTC
Sequence 2129
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TTTGTGTTCTCTTTAGTCAATTCCTTCCTGGGGGAGTTTTTGAGGAGAATCATTGGGATG
CAACTGATCACAAGTCTTGGCCTTCAGGAGTTTGACATTGCCAGGAACGTTCTAGAACTG
ATTTATGCACAAACTCTGGTGTNGGATTGGCATCTTCTTCTGCC
Sequence 2130
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CTCTTAGCATTTCTCTTCCTCATGCGAAAGATCCAAGACTGCAGCCAGTGGAATGTCCTC
CCCACCCAGCTCCTCTTCCTCCTGAGTGTCCTGGGGCTCTTCGGACTCGCTTTTGCCTTC
ATCATCGAGCTCAATCAACAAACTGCCCCCGTACCTGCCCG
Sequence 2131
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GAAGGTATTATTTTCTGNGTAGATAGTNGTTAACTTGGTGTCCTTGCANGGTAAGACGAT
CAGCGAAGCTTTCTGTTCCACCATCTTGCTCCTCTCATTTTANACCTAATA
Sequence 2132
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GCCCTTTTCGCTGGGGAGGGACTGGAGCAGAGGCTGGGGCTGTGAAGGTGATGGGATCAC
CTCTGATGGTTAAACAAGAGTACCT
Sequence 2133
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CACATCTTGGCAAGACTTCTCATCTGTTAATAATTTAAATCCTTTCTTGCAGCCCGCAGT
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Table 1

TACCTGCCCG
Sequence 2134
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TGGATGAGTGCTCTTTGGATAGGACCTGTGACCACAGCTGCATCAACCACCCTGGCACAT
TTGCTTGTGCTTGCAACCGAGGGTACCT
Sequence 2135
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CTATTATTGGTGGAGATAGACCTGATGAGTTCCTACAAGTGAAAAATGTGCTGAAAGATG
GTCCCGCAGCTCAGGATGGGAAAATTGCACCAGGCGATGTTATTGTAGACATCAATGGCA
ACTGTGTCCTCGGTCACACTCATGCAGATGTTGTCCAAGATGTTTCAATTGGTACCTGCC
CGGGCGGCCGCTCTAGAACTAGTTGGATCC
Sequence 2136
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AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC
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ACTGAAGTTCCTTATGCTACTTTCAC
Sequence 2137
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GGAATTGAAACACATGGGTCAGNAGCAGATGGGGCGATACCCTGTTTCATTTTCACCTGT
GTGGGGGGACCTTGGGATTATAAAGGGAGG
Sequence 2138
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ATTGTTAACGATCATTGCCTGCACAAAGTATAGTTGCCTTTGAAGTAGTCCACCCAATAC
TTCACCATGACATAGCGGGGCAGGATTGGGGTGTTCACATTTTGCTGATAAGATGGTGTG
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AGGCTGGCATCTTGAGTAAACTGTTGTCCAAGGGCAGCAGCCAGATTTCCACCAGCACTG
TCACCAGAAATGCAAATTCTGCCTGGATCAACCATATACTTCTGTAAGACTTCTGGCTTC
AGGAAATACTTTGTGGCCCGTC
Sequence 2139
ATAGGGCGAATTGNTNCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGACAGGCCATCTC
GCTATAGGAAAGGAAAGTGGAACAGCATTCATCCTCAACATTTTTACGAAGACAAAATGA
AGACTGGAGTAGAAGACTGATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGATG
TGGTGTGAGAAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTTCTCA
CAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCT
GCCCG
Sequence 2140
GTAATTTAATCTTCACATCACTTTTACTTAGACCTTGATGAATGCTCCCAGTCCCCGAAA
CCATGCAACTACATCTGCAAGAACACTGAGGGGAGTTATCAGTGTTCATGTCCGAGGGGG
TATGTCCTGCAAGAGGATGGAAAGACATGCAAAGGTGAGTGAAGAGTCTCTGACAATCGT

Table 1

GACCCTAGTCTGTATCTTTTCTTTCAAATTTAAATATTAGATTATCAGGAATTATGCCAT
GTGCATCACCTTCATTAAAAGGTCCCATCCTAGTGGCCATGTTATTGCTCATAAGAAAAA
CTCTACCAATATGCTCATTGCAGGAAGCAGAGAGGATTAAAAC
Sequence 2141
GTAATTTAATCTTCACATCACTTTTACTTAGACCTTGATGAATGCTCCCAGTCCCCGAAA
CCATGCAACTACATCTGCAAGAACACTGAGGGGAGTTATCAGTGTTCATGTCCGAGGGGG
TATGTCCTGCAAGAGGATGGAAAGACATGCAAAGGTGAGTGAAGAGTCTCTGACAATCGT
GACCCTAGTCTGTATCTTTTCTTTCAAATTTAAATATTAGATTATCAGGAATTATGCCAT
GTGCATCACCTTCATTAAAAGGTCCCATCCTAGTGGCCATGTTATTGCTCATAGAAAAAC
TCTACCAATATGCTCATTGCAGGAAGCAGAGAGGATTAAAACCCAAGTTAAAACAGTTTG
CTTTCTTATAGAAAACTGCCATAAATTT
Sequence 2142
TATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAGTCAAGGACGTCTTTAA
CGTCATGGACGGCTCCTAGGACAGCCACAGAAAAAAATGGGGTAAAGGGGTAGGAAGAAA
AAAGGAAGGGAAAGAGAGCCAGGGAATTGGGGAAGGAGAGGTAGGGGAAG
Sequence 2143
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGACGGGGCTGTAATCTAGTAACTGT
ATGTATTTTAGTTCTTCAGTCCCTGGGAAGGAGACAGGAGAAGGTGGGAGGGAGGAAGGG
GCCAGCTGAAATGGAAACAGATCCCTGATCCGGGGCGGTCAGTGGAACCCTTTCTTGGTG
TGCCGAGAGCCTGTGTATTTCAGAGGCAGCAAAAAAGTAAAAAAAAAAAAAAATTGATCT
TTGTTTAGATTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCATACCAGAAACCGAN
AAATGTCTAGCAAATCCAAAAAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCCA
AGAACAGCTCGTTTTAACCCGGCCGCTCTAAGAACTAGTGGATCCCCCGGGC
Sequence 2144
CGAATTGTTCTCCACCGCGGCGGCGGCCGCCCGGGCAGGTACTTTTCTTGAACTCAGCAT
TGCTGCCCTNAACCCTCCCCCAGCTGCCTTCCCTACTTTGGGAGCCTCTATTTCTAGAAC
AGGAAAACGCTAGGCTAAATATATGTCCTAATGGTCTCTTCCATCGGTGTGAAGGGAAAN
NAAAAATGGGCCCAATGTTGTTGCAAGGAATTAAGGGAAGGTCCNTGCCTTGCCACCCAG
TGGGGNTTAGGAAATCCATCTTTTACCGGGNCTCCAGTAGTAAGCCTGGTTGAACANGGG
TTCCCAGGACCATCAAGACAAATTCCTGGTTTTCCCTGGAGGGAGGCNTTTGNTGGGGGG
GCTCAAATATTGGNGGGGAATGAATNCTTGGGGTTCCCTTAGGACAAAAAGGGAGGCCCC
NCCTAAACCTTGGAATGGGGGGGGNGGTNCACNTGGGNGNATTANGCCAAGGGGGGGGGC
CCCAATGGGGCTTGGAACCTATTTTTTTGNTTCCCTNGGGGGA
Sequence 2145
GCGGCCGCTCCGGGCAGGTACGCGGGATACTTGGGTTGACCCTAACCAAGGATTGCAAAT
TGGATGCTATCAAGGTATTCTGNAATATGGAAACTGGGGAAACATGCATAAGTGCCAATC
CTTTGAATGTTCCACGGAAACACTGGTGNGACAGATTTCTAAGTGCTGAAGAAAGAAAAA
CAACGTTTTTGGGTTTTGGGAGNAGTCCCATTGNNATTGGGTGGGTTTTTTTCANGTTTT
AGNCTTACCGNGCCAAATTCCTTGTAAACTTTNCTGNAATNCATNGTNNCTNTGGAATTG
TTGCTANNCTTGGGNCAATTTTNCTNTTCGGAACTNTCCTNCTTNCCANGCTCNGNAGAC
NTTTTNTCNNNAAGGAAANCCAATTNTACCAATTANTTCNAACCTTGGCCAAAAAAAAAA
TTATGGTCAATTTTNGCCCATTAACCAATTNGGGNAATTCCANNGGGGCTCCAAGGTTGG
GGGAAAAAAATTGGTTTANANAAGAAAAAGGGGCCACNCTTGGGAAAGGCCTTTGGAATTG
GGGGGGGNTTACAAAAAAATGGTAAAAGNGGGTNGNAAAATTTTNNAACAGGGGGCNTTN
NNAAAGGGGGAA
Sequence 2146
AGGTACGCGGGAAGCACATATTTGGTAGCCTTTGCATACAAGAATGTGAAATTTGTTCTC
AAGCACAAAGTAGCACAGAAGAGGGAGGATGCTGTTTCCAAAGAAGTGACTCGAAAACTT
TCTGAAGCTGATAATAGAAAGGATGTCCTCGGTAAGGGGAGAAAGATTGAAAAGNAATCC

Table 1

TTGTTGTNAAGAAAGAAATGAAAGTTGCTTGATTATNGAAGCTACAAACATTTTTCCATC
TTTNCTATAAACAANCACTCTTGTTTCCCTGGGTCCGATGGGCTCATNTGATTGCTTTCC
TTCTTTCATTANTTGNAAGGAACCTTTNAACTCCCACAAGTTNNAAACCTAACANNATTT
GGTTCCATTAAAGGTNGNCTTTTCAATTCCAGGGGAACCTTCAATNCGGNCCCCTTCCCT
NGATNCTAACNTTGGGGCCTTCCCCAAAAANTTAGGTAACTCAATTGGTTCAAGANCTTT
TCNACCCCCCCCCTNGNGCCTNTTTTGATTGGTCCTTAATTGGGG
Sequence 2147
AGGTACAGAGGCGCTGTCTTGGCTCACTGCAACCTNTCCCTACCAGCTTCAAGTGGCCCT
CTCATCTCAGCCTCCCAAGTAGATTGGGATTACAGACACGTGCCATTATGACACGGCTAA
TTTTTGTATTTTTTGTAGAGACCGGTGGTTTTAATACATGTTGACCCAATGCTGGGTTCT
GAGNCCACACATNATGCCCGGCCCTTGATAGTCCTTATTTTCTATTCAAAGTCTTTCTTG
GGNGTATTNGCCNTTTTTTTNTCTTTAATTAAAAAAAAAANAAACTTTTCCAAGGTTTTG
GAAGNGTGCCTTCNCANAAAAAANGGTNGNAAATTTACCGAANAATAAGNTTACANTAAT
TTTTTAAAAAAAAATTTTTTAATTAATTTCTTAATTAANTGGCAAGGGTAAAANAATTTAA
TTAAANANGTGNNCTTTGNTNTTNGGGGAAAAGGAAATTNTCCCTCGGTTNATTTTTGGG
CCAAAAAAAATTAATTTTNTTNCCTTGGCCTNAATTAAANTNTNGGTTATNGGGGTTGGNC
CTTTNNGTAAAAAATTTTTATTTACCNCCAATTAATATANAAATAAATTAACCCCTTTCT
TTTTTTTGGGAACCTTANAANAAAGNGGAACCNTTTGGTTTTTT
Sequence 2148
CGGCAGGTACCACACACACACAGGCACACACAGGCACACGCAGGCACACACGCAGACACA
CACACATAAACACACAGAGTTCACTAGTCCGAGTTACTGATTTTCTTAGGATTCTCAAAG
TGACAACACCGGAAACAAGGTAATTCATGTTAAAACACAAGGGTTATATCAGTAAGAGAT
GGGATCCCCGAAGTAAACCGTGGAATTTGAATCAAGCTTCGAAGAGCTAAAAAAAGAAAT
TGGAGTTTCAACATTCACCTTCTTGAATCCTTAAGAAATACAGAAGTTCAAAATAGAAAA
CATTACAGTTTCAGGATACAAAAGTAGAAACATCTGAGATTA
Sequence 2149
CGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGAACCAAAATCATAGATTT
AGAGTTGGAAGTGACCTTTGTGATCATTATTTCAATCCTTTCAGAGAATTCTCTCTGCAG
GAATATCTATGTAGGACTTGGATTTGACCCAAGCACATACAATGTCTCAGAGGGCTCTCT
GCTCCTGGCCAAGAGCATCAGGTCTTGTTTTTAATATAATCAGTGTTGTAAATTATGGCA
CAGAGAACAGGCTCATTCAGCTGTGGAATGAACTGAGTTAAATGGACTTGTAAACATCCC
TAAATGAAAGAATTAAAAAGTCAAATGAGGAATTATATAGCCGTCCCTTGG
Sequence 2150
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCACAACACCACTGTAAGTCTTTGC
CATTCCCTTGTTCTTAAAAACATTGCTGTTTCTTTTAATGCATGGAAATTCTAAATCATA
CAGATTGGGAATTTAAAATAGTAAATAGGGGAAATAATTTTTTTTTTTTTTTTTGANACA
GTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCNCAATCTCGGCTCACTGTAACCTNT
GCCTCCTGGGTTCAAGTGATTCTCCTGCCTNAGCCTCCCGAGTAGCTGGGATTACAGGCG
TGTGCCACCAGGCCTGGCTAATTT
Sequence 2151
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANAAATTGCCTCANACAGGGATTGA
TGTCAGGAGGCTTCAAGGAGAGAAATATACATGAATGGGAGACCCCAGGTTGCAGGCAAC
AAGAGTCACAGGTATGGGAGAAACCAGGAAGTCTGTGCCATGTTAACTTTGCTCATCTCA
TCGTGCTTTGTACCTGCCCGGA
Sequence 2152
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGCG
GTCCCAGATTTGGTGGGACTCTCCTCTGGTATCAGTTTTCAACGCCACTTCTTGTTTGGA
GTCATTCCCAGTGCAGTCATGGACTCTATGAACAAATACGGTTATTTAAATGTATTTGTC
CAGTATGAGAATCAGAATGAACTAGTAGAGGCTTTACAGATCAGTTGGTCTGACCCATTT

Table 1

TACAGATGAGGAAACAGGCCTGAGAAGATGGAGGGAGTTACCCACAATCTGAAGGGGCTC
TACCATGACTAGACCCAGGTCACCTGCCTCCCAGGCCTGGCTCTTTCCACTCCGAGGTGC
TGGCTCACCACAGACTTATTCTTTAATGGAATTTTGGAAAGGCCTCACTCCAGTGGACTC
TTTGGGATCT
Sequence 2153
CTNCTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTT
ACTAAGGCAGCAGAGTAGAAAGATGAAGTGCAAGGACCTGGAAATCAGACACACCTGGGT
TCCTGGTAAGCTTCACTGCTTCCTGGTCTCTGATATCAGCTCTGCCCAAATTTCAGCTGT
CACAGAATGAGTGATCCTCATAGTATAATGGAAATGCATCATCTCAGTTTCCCCATGGCC
TGAATATCCATACAAAATGAGAGCCCGGTAGAGAAAAACAGAGGACGTGAGGAGTTTTTA
AAAATTGAGGAAAAAGTGGGAAGGGAAAAAGTAAGGGATGAAAGGTGAAAGGATGAAAGG
GAATATGTTCAGGAGATGCCTAGGCACTTGGCATCCCCCACCCACACAG
Sequence 2154
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAGAA
AAATGGTTATTTCTAAGCCTCAGTGAAACGTGTCCAATGAAAGAAAAGCCTGAATTACCA
ACATGGGTTAGCATCACTCACACGCAGGCAGAGATAACAGCAAGTGTCATTTAAGACTTT
TCTAAAACTTCATGCCTTAAGGAGTAAAGATCCAGTTCATATAGGGTTAGCAACTGCCTT
CAGCGAAGAGGAAAACAGTAAATAATTAACAAAAAGATCAAGTCAGGAGATAAGGCCTAA
GAGAGACAGGACTGAAAAGGTTAGAGGGAGGATAGGTGAGGGCTTGGGAGACCTTGGAAA
AAACAGNAGGGAGCCGGTGGAAGAATTAAGGTGGGGAGGACAAAACGGGCACCAC
Sequence 2155
CCGCGGTGGCGGCCGCCCGGGCAGGTACCGCGGGGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAA
TGAGTCAAGGAAGCTTTTCTTTTGAGCTATTTACAGCTTTTAGCAATTGAGTAAAGTATA
CTCCTGTGAACAAAATTTGGAACATATTTGTTTCTCTCTAACTGATTTCTCCAGAATTTG
GAACTAAGTTGTAGCTGAGACCAATGATGCTGGACCTCCCTCAAAAGCTGCATTTTCTGG
AATTTCTGGAAGGGCAAAACTGTCTGCCCTATTATTTGTACCCTCGGCCCGCTCTAAGAA
CTAGGTGGGGATCCCCCCCGGG
Sequence 2156
CCGCGGTGGCGGCCGCCCGGGCAGGACGACCAGTGTGAATGAATGGAGCAACCAAGAGGT
TAGGCAGTAGGAGATGAGGCCAGAGAAGAAAGAGGGTGTGGTAGCCCCCTAATGCTGGCA
CTTACTTCCACTGGATCTAAAATCCAGCACGGAATTATGCTGACCACATCAGCCTAACTA
ATATTGATCTAAGTAACATTTATGTTCTAGCACCTAAATCAGGAGCCTGCAAAGGATAGC
CCACTGCCAAAATCTGGCCCACTCTCCAGTTTTTGTAACTAAAAATGTTATCAGGAACTT
CAAGCCCAAGGTCCATTTCATTTTACCAAANCTGGTCTTACGGGTGGGCAGGAGACCAAT
TACCGGCTCACAAAAGGNCTTAAAAATATTTTACCTCTCTG
Sequence 2157
CCCGCGGTGGCCGGCCGCCCGGGCAGGTACCTGTTTAAAAAATTCTAGAGAGAAAACTAT
AGAGAGTGTAGTGTGTGATTCAGACATACTAACCATCCTCACATGGACTCACTCTCTAAA
AACTCCAGACATAGCCAGAAAGAGGCAGAACAGCCACAGCAGGAGAGATCACTGATGCTC
ACTGAGGCAGAGGACTTTGTCATAACCTGTAGAAAACATTTTCCCAATGTCTCTTTACCA
CATTGGGATTATAAATTTTCTACATTCTTCTTCTTCTTTTACTGGGGCATTNTATANCAA
NCTTGGAAATACANAANATATGGNGAANAATTAATCNTTAAAAATNTTAAATTTTCACCC
ATCCCTTGTNCAGGACAAAATTAACATTCATTTATGGAATC
Sequence 2158
TACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCAGCTCTGTCTCTCCTCGGAG
CAGGATTCCATCTTTTCCATGGCTGGGGCCCTTGACACATGTCACTGTGCACTGCTCTTT
TCGCTGGGATTTCCAAAAGACCTTGGCTCAGGTGTCACTTTTGCAGAAAAGCATTTACTG
ACTGTTGACTTGGCCAAATCCCTGTGCTGTGTTTCCTAGCACGGTGAGTTGCATTTTCAC

Table 1

ATGAACTCATGCCTACCTTCTCTTGTTTTATAAGCTTCATGAGGCAGGTACCTCGGNCCG
CTCTAGAACTAAGTGGGATCCCCCGGGCTGCAGGNAATTCNATATTNAAGCNTATTGAAT
NCCCNCNAACCTTAAGGGGGGGG
Sequence 2159
CCGCGGTGGCGGCCGAGGTACATTTTACAAAATTAAAGTCACTTTGTAGGTATATAAAAA
GTTTTAAAAGTTGGTTTATTAATGAGAGTAGTGTACTACATTTCTTTTCAAGCAGTAGTT
TAAATATTAACCAGTTTACTTTTTTTTAAAGTCAATTTACTTTTCCAGCCTGGACAACAT
GGTGAAACCTCGTATCTACAAAAAATAGAAAAATTAGCTGGGCGTTGGTGGCTCACGCCG
GTAGCCGTGTTTCTTTTGGTGGTGATACAAATGGTTCTAAACTGACTGTGGCACTGGGTT
TATTACAACCTCTGTGGACTATTACCTAAAAAATTCACCTGGAATTTGTACCTGGCCCCG
GGGCCGGCCCGCTCTAGGAACTAGTGGGATCCCCCCG
Sequence 2160
CCGCGGTGGCGGCCGAGGTACGCGGGTTTCCTCAACATGGCTGCGCCCTTGTCAGTGGAG
GCGGAGTTCGGGTGAGTCACAGAGCTGGGGCGCCGTGGGGATGGATTGAAGTCGTCGGGC
CCAGAATTCCTTTCCTTCTGCCGTGGGGCCTGACAnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnAGGGGTTAAATTGCCGCCGCTTGGGCCGTAAT
CAATGGTCATAGGCTGTTTTCCTGTGGTGAAAATTGTTATCCCGCTTCAACCAATTTCCC
ACCACCAACATTACCGAAGCCCGGGAA
Sequence 2161
CCGCGGTGGCGGCCGAGGTACGCGGGGGAAAATGTCAGAGATGGGAAGAAACAAGAACTT
TGACATGCTTGGTGTTCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAA
TACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAA
TGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTTTGGAGGTGGAGCCTTCAGAA
GGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCCTGCCATGT
GAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCA
TACTGGCATCCTCATCTTGGCTTTCCAACTTTCCAGAACTGTGAAGAAGTATATGTTT
Sequence 2162
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGAACCAAAATCATAG
ATTTAGAGTTGGAAGTGACCTTTGTGATCATTATTTCAATCCTTTCANANAATTCTNTNT
GCAGGAATATCTATGTAGGACTTGGATTTGACCCAAGCACATACAATGTCTCANAGGGCT
NTNTGCTCCTGGCCAANAGCATCAGGTCTTGTTTTTAATATAATCAGNGTTGTAAATTAT
GGCACANANAACAGGCTCATTCAGCTGTGGAATGAACTGAGTTAAATGGACTTGTAAACA
TCCCTAAATGAAAGAATTAAAAAGTCAAATGAGGGAATTNTATAGCCGNCCCTTGGTATC
CTCAAGGGATTGGGTTCTAGGGACCCCTGGGGGATACC
Sequence 2163
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGTGGGAAGCTCGCAGCAGCTGGG
GAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGATACACCCAACTGGGAGATG
AGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGATCATTTCGCGAAGGAGCAA
GGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTACTGCAGCTTGAAGGAGCCAA
C
Sequence 2164
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTGAGTATTGCTTAT
ATGTCCTTATGGGGATGGGTGCCACAAATAGAAAATATGACCAGATCAGGGACTTGAATG
CACTTTTGCTCATGGTGAATATAGATGAACAGAGAGGAAAATGTATTTAAAAGAAATACG
AGAAAAGAAAATGTGAAAGTTTTACAAGTTAGAGGGATGGAANGGTATTGTTNAATNNTT
GAATGCCATGGANNGGCCNAAATNGNTTTTTTTTNGGCCNCCAAAAACCCCCCCCTTTAA
ANNTTNTTTTTGGGGACNTTTTGGNAAANGGTTTTTAAAAGTTTTNATCTTTTTNAAACC
CCTTTTTTTTTTTTTTCCNCNCCNCCAAAAGGGGGGGTNTTNTTTTNNAAAAAAAAAAAAA

Table 1

AAAANANGGGGGGGGCCCCCNCCCTNTTTTTNGGGGGGGGGGGGGGNGGNAGNTTTTTTT
TTTTTTAA
Sequence 2165
GGTTAAACGAGCTGTTCTTGGGGAAGTCCTCCAGTGAGTCATGCACTTTTTTGCACTTTT
TGGATTTGCTAGACATTTTTCGGTTTCTGGTCTGGATGCCTTCCTTCTTCATAGTCAGGG
GTCTGTTAATCTAAACAAAGATCAATTTTTTTTTTTTTTTTTTTACTTTTTTGCTGCCTCT
GAAATGCACAGGCTCTCGCACACCAAGAAGGGTTCCACTGACCGCCCCGGATCAGGGATC
TGTTTCCATTTCAGCTGGCCCCTTCCTCCCTCCCACCTTCTCCTGTCTCCTTCCCAGGGA
CTGAAGAACTAAAATACATACAGTTACCAGATTACAGCCCCGTCTAGTACCTTCGGCCGC
TCTAGAACTAGTGGGATCCCCC
Sequence 2166
AGGTACGCGGGAAGGAGATGTTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCT
CCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACA
GGGATATCCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTCAG
AATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAA
AATGACAAGGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTTTGGGAGGTGGAGCCTTC
AGNAAGGGTAATTAATGCCCTTGTAAGGAAGAGGCCAGAGAGCCTTGTGGCACCCTTCT
Sequence 2167
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGCAGCTAAAATCTAGGATG
GNGTTAAGTTTCTTCATTTTGTCAATTATATATAAAAAATTAGAAACAACATGAATCTGC
ATTTCTTGGATGAGATAGTTAATAACAAACTATTTCTCAATATTTGTATACTAAAAACTA
GTGAAGGTGTTATGTGTTTCAGTATCTTATCTCTTATTTGAACATGGGTTTCTGAAAGGA
GCCTATATAATAATATAAATGGTATGTANTAAATGAGGCACTGTCTTGGCTGGGACTGCT
ATAAAAAAATTACCATAGACCATTGGACTA
Sequence 2168
GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACCCTG
CTGAAAGATTATTTCTAACAGGCTTGTAGAGAAACGTCGGTTCATGTAAATTAGAAATTA
TGGGGCCACTTTGCCATTCTTCACACCTGCAATGAACAGGTGTTTATCTGCAGTTCTGAC
TTATCTCTTGAACTCCATTTGCATGTTATAGTGGGATGCAGCTGATGCCCTGTCCAGATC
TTCTTCAGGCCACTACATCTATATATGCATTCATATTCCAGTGGCTGTGAGTGTTGGCTG
TTGGTTGACAGAGGAGCTGCATCCTTCTGGAGGAAACTGAACTCAGCTGATGAAAGCCAC
CTGGTCCTGGAGGTGAAGC
Sequence 2169
CGAATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCAG
CCATTGTTGCTCCCTTTGCCCTTCAGGGTGTCTTTCCCCAGCATCTGTCCCTGCAGCACC
CCCACCCCCTCACTCTAATTCTGAGCACTCAAATTGCCCATCAGTCCAAGCCTTCTCCTA
ATCACAGCCCTCCTACCTCTGAGCCCCTTCATGGAGCCCTGTTCATGGTGCTTGGCATTT
TATGACAACTAAACCAAAAAGCAGTGAGGTTTGAAAAAAAAGAGTCAAAAGTCAATCCTG
GCAGGGGAGGATTTGCTCTTTGTCTTAAAAAACCAAGAGTACCTGCCCGGGGCGGCCGCT
CTAAGAACTAGNTGGGATCCCCCGGGCTGCAGGAAT
Sequence 2170
GGTGGAATCCGGTNGTTCTTTCCTCACATTTGGGATGAATTGGTCATAAGGGTTTTTTAA
GCATGGTTTCCCTCCCTTTTCTTTCACCCCTCCCCCTTTTTTTCTTTCTAATTAAATCCA
AGAAGAAAACCTTTCAAAAGGTTTAATGGGGGAATGGGTCCGGGGATTCCTCACCAGGGC
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TNGCTTTCCTTTATTTAAATTCAATTACCAAAAACCTTCTTCAACCCCATGGAATNGTGG
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TGGAACCTTTAANNAAAAACCTTGGCCNNGNNTTNNNATNANTGANAATANANNNNNCCC
AAAAAGGTTACCCCT

Table 1

Sequence 2171
GTGGGCCGGGCCCGCCCCGGGGGCCAGGGGTTACGGCCGGGGGCCGGCCTCTTGGCAACA
AGCAAGTCAAAAAGCCCAATCNTCTTTCCGGNCGGGTTGGCCGCCAANGGGCCGGGGGCC
ATTTCGGCCGCCACCTTCTTAATGGGGCAATTTGGCTTGGGTTTCTTACCCAAACCGTTG
GAACCAGGGGTNGAATCCAAAGGTTTTAAAAGAAAAAGCCTTGGGAACCGTTCNCTTCTT
NCCAAACCGAACCCCTTGGGNTTTAATTGAAACCANTGTTTAAAAAAGGTTCAATTCCCT
TTTTTGCCCCACCCGTTGGTTGGTTTCCTCCGTTGGTTCCAAGGAAAAGGAAAAGGAATA
AAAAACCAACCGGCCCCAATTCCAATTAAGGTTTGGGGAAAACCCCCGGGGAAGGAAAAA
AAAGGGGGGGGGTTAAAAAATTAATTGGTTGGGGGTCCTTTGGTTTTTTTTTGGAATTCC
CCCCCCTTTTGGAATTGGGGGGAATTCCTTTTTCCCAAAACCAATTTCCGGGAATTTTGG
GCCCCTTTTTGGTTNGTTTNCCCCGGNTTTTGGGGGAAAAACCCCAAATTTTTTTTTTTT
GGGGGCCAATTTCCTTNAATTAAGGGAAAAAAANGGNAAAAAAATTTCCCAAAANCCTTG
GGAATTGGGAAGGNCCCCCTTTTTTCCTTTGGNAAAGAAAAAANGGGGAAATTGGGCCTT
TCCCCCGGCCAAAAAACCCCCAAGGGGGNCCCCCGGGGG
Sequence 2172
CCGGGCAGGTACTTGTTGCTTTGGTGTAGTGAAATGAATGCCTTGATGAAATTGCATTGC
ACCATTTTTGAAAGAGAGAATACTCAAACGTGTCACTTCTGTTTCTTGCAAGCAACTGTG
ATCCTGANCTGTGCCACACTTTCTTGGTTGGGATTATTTCTCGGTTTCTACTTNCCTNGT
TCTGANAGTATGTTGGCCANNGTGTAGTAGTTGANACATAGTCNTGNATGCTCCACNCAC
TCTAGGCAATCAACNAGCACCNCAGTAATCTTCAAACGTAATTTTTCCCATTGGGGTACN
CACCAAGNCATTCTTCCAATTCTTNTTGGNGACTTGGAATNCTCACGNAANATAGAAACC
CCCNCTTTACCTTGGANTAGNTTCNCNANNNAGGGCCACCCTTTTTTTTNTTTGAAAAAA
GGGGCCTTCCTTGGCCTTTTTTGGAACCACTTGNANAGGNTTAATTTTTT
Sequence 2173
AGGTACTTTATTTTTTTTTTTTTTTTTTTTTTGGCAGTGGGAGAGTTTTTTATTCAATTTG
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TCATTTGGACCATTTTTATCTGCCACCCCAATTTTTTTATTTACAAAAAAAATTCNAAAA
AAAAAAGGTTAAAAAAATTTNCATTTCCCAAATTAATTTTTTGGCAANGGAGGTTATTAA
NACCCCACNTTAAGTTNTNGCCCNTTAAGNAACCAAAAAAAAGGCCTTAAAATTTTTTNC
TTAACCAAAAAAAATTTCCANAAAAAANACCTTTTAAAANTNGGCCAAGGTTTTTTTTTA
AATTTTAAAAGAAAAGGAAGGTTCCANAAAAAATTTTTCCTTCCTTCCAAGNTTTTAAAA
CCTTGGGGAATTTATTAACCAATTAAGGGTGGGGGNTAATTANTTAATTCCTTTTAAAAA
AGGCCANGGAAAAAAAACCCCCCCCAANAAAAAANAAANCCAAAAAANNAACCCAGANGG
GGGAAAAAAAAANAAAAGGGGAAAAAAAATTTACCCATTTGGTTTNCAAAACCNAGGNTCC
CAAGGNTTATAAAAAATTAATTTTTTTTTGGAA
Sequence 2174
AGGTACGCGGGGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATAC
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CAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTA
AAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTTTGGAGGTGGAGCCTT
CAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCCTGC
CATGTGAGGAGCCAAGAAGCC
Sequence 2175
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTGGCGTAGCATTCCATGT
TCAGCTTTGACATTTATTTTCTCATATCAACCCTTTTTACACGTGAAACACAATCCCGCT
CTTGAATTCTTAACTGCATGATCTGTGAAACCTGTATTTATATTTTCTTCAGTGGTATTC
TTTGTCGGTGTGTGTGTCCTAAACAAACCAAAAGAAAACTTTCCAAATCTAAAGTATTCA
TTCTCCAATTGGAGCAAGAGGAGTCAGTTAGATACTATCACGGCATTCATTTGTGGCTGG
CTTGTCATATTTACTTATGATTGATAATAAATCTATTTTGCTTTTTAGAGCCTCCCGAGA

Table 1

AGCCATCTGCCTTCGAGCCTGCCATTGAAATGCAAAAGTCTG
Sequence 2176
AGGTACGTGGCGTAGCATTCCATGTTCAGCTTTGACATTTATTTTCTCATATCAACCCTT
TTTACACGTGAAACACAATCCCGCTCTTGAATTCTTAACTGCATGATCTGTGAAACCTGT
ATTTATATTTTCTTCAGTGTATTCTTGTCGTGTGTGTGTCCTAAACAAACCAAAAGAAAA
CTTTCCAAATCTAAAGTATTCATTCTCCAATTGGAGCAAGAGGAGTCAGTTAGATACTAT
CACGGCATTCATTTGTGGCTGGCTTGTCATATTTACTTATGATTGATAATAAATCTATTT
TGCTTTTTAGAGCCTCCCGAGAAGCCATCTGCCTTCGAGCCTGCCATT
Sequence 2177
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNACTTGTTAAAGTTCTTTTTACTGNGG
CTGTTATAAAATTTAAAATTATATGTGTGACTTGCATTTCATTTTTATTGGCCAGGGATG
CTCCANAAGGTTGATGCCTGAAACTAGANATCCATTACCTTTCCTCCTCTCTAGGGCTTC
AAATTAGGTTTTAATTTAANAACACCTTTGCTATATATAATCAATACAAAAAACTTTACC
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AAACCCATCACCAACAAATCACCCATCCATTATTCCCCGCGTACCTGCCC
Sequence 2178
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AGCAAATTAAGCACTTTAACTGCCTGTATCCATGGATCAGCTGCTCTTCTATACCCAATG
TATTGGCAACACATATACATCCCAGTGCTTCCTCCACACCTGCTGGACTACTGCTGTGCC
CCAATGCCATACCTGATTGGAATACACTCCAGCCTCATAGAGAGAGTGAAAAACAAATCA
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TTGAACAACCTACCAAGTGATGTGGTCTCGGCCTTGAAAAATAAACTGAAGAAGCAGTCT
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TTTGTAAAGCACCGCTCAAGCCGTGATGAAACAGTTCCTGGAAACTGCCATTAACCTNCA
CTTTTTAAGCAGTTTATCGATGGTCGACTGGCAAAACTAAATGCAGGA
Sequence 2179
CGAATNGGAGCTCCCCGCNGTGGCGGCCGACGTACNGTGATCATTACTCCCCAGCGCAGC
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ACGAAGAAGAGTAGTGAATTAATACAGAAATCACCCTNGATTTGGCAGAATATTNTCCCT
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ANAACTTGTNGGATCCCCCGGCTNGAAGAATTCCANTTTAANCNTATNGATACCGNGNAC
CTGANGGGGGGCCCN
Sequence 2180
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTGAACTGAGGAATTATAGATAAACCTTAG
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GAGCTTTGTCCTAGTTTTTGTCTTCATAGGTCAAAACTGGCAATATTCTCTTGTCTGCAA
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Table 1

CTGCTTCATCAGTTTCACATGTTCATGTTGTCACTGAAAAAATGCATCTACTGTTTATAG
CTCCCAAGGAGACCCCAAATCCTTTTTTTTTCTTTTGAGATGGAGTCTTGCTCTTGTTGC
CCAGGCTGGAGAGCAGTAGCGCGATCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCAA
GTGATTCTCCTGCCTCAGCCTCCCCAGTAGCTGGGATTTACAGGTGCCCGCTACCATGCC
TGGCTAATTTTTGTATTTTTAGTAGAGACAGGCTTTCACCATGTTGGCCAGGCTGATCTC
AAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCGAAAGTGCTGGGATTACAGGA
GGTGAGCCACCCGCGCCTGGCCCCCGTATTCATTTTTATACTGGAAAACATTTTTTTN
GAATTTT
Sequence 2181
TATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAACTTATCCC
CAGAGGAAACAGGGTTTATGAGCACTGACAGATGTCTTCCCTGGGCAAAAAAAAAAAAA
TAGTATATGTATACACACACACATACACATTTATATTTATATTTCTTAAAGCTTTTAATC
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TAATCCCAGCACTTTGGGAGGCCGAAGTAAGCNGATCACCTGAGGTCGGGAGTTCAAGAC
AAACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAACTACAAAAAAATTANCCTGAT
GTGGTGTTGTGTGCCTGTAGTCCCAGCTACTTANGAGGCTGAGGTAGGAGAATTGCTTGA
ACCTG
Sequence 2182
ACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTTGCCT
GGAGTCTGATCTGTCCCGGCCCAGTGTCCTCCAGGACCCTGGCCCCTCATGCCTCCGTGC
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CCTCCCTGGCATTTTTTACACCTGGAGCAGCCAGAGGACGCATGCATGGCTCTTCGGAAG
CCTTCTCCTGCCACGGCATGCACCCACACATGCGAGCCTCCCGGGTACCTGCCCG
Sequence 2183
CCGCGGTGGCGGCCCGAGGTACTGATCTAACCAAGATATTTTGTTTTTCTCATCCACCAG
TCACTTTCTCAGTCCTTTCTGTATCCCTTGCAATTTGAACAAAGCTTGGTGAATAGTGTG
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TGTTGATCATTGTCTATTGTTCTCCAAACAGTAAACCAGTATTTCACACTGAGATTGTCG
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TGGAAGTGGTAGGTAATTGCTTGGCG
Sequence 2184
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TGAGTCTATATGTCAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAG
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AGACAGTGCCTCATTTACTACATACCATTTATATTATTATATAGGCTNCTTTCAGAAACC
CATGTTCAAAATAAGAGATAAGATCCTGGAAA
Sequence 2185
TAGGGCGAATTGGAGCTCCCCGCGGTGGCTTGGAAAGCCAAGATGAGGATGCCAGTATGG
CTAGCTTCTAGTGAGGGTCCTCTTGCAGGTTGCAGACAGCCGGCTTCTTGGCTCCTCACA

Table 1

TGGCAGGAAGAAGGTGCGCAAGCTCTCTGGCCTCTTCTTACAAGGGCATTAATTACCTTC
TGAAGGCTCCACCTCCAAACACCATCACATTGCTGACATTTTCCTGCAGGATGTTTATAA
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CCCCTCCCAGCGTCAGGTCTAAGCACACAAGTTCTTCCTTCCATCTACAAACCCCCGCGT
ACCTCGGCCGCTCTAGAACTAGTTGGATCCCCCGGGCCTG
Sequence 2186
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GAAGTAGAAGAGACAGGGATATCCANAAGGTTATGCAAAACATCAAGAGAAGATGAGAGG
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CCCATGTTCAAATAAGAGATAGATACTGAAACACATTACACCCTTCACTAGTTTTTTAGT
ATACAAATATTGAGAAAAT
Sequence 2187
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TAAGGGTAAGTAATCTTAGTGCCTGGTGAAGCTAATTTTGTCTCACGAGCCCAACTGTTA
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TGTGCAAGCAAAATAAAAATACTACACTTAAACATAAAATATACTTGTTAAAATATGGTA
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CTGAGATTCTTTTCTATGAGAAATACATCACAGGTTGATTTACTTTAAAAGCAAGCCCAT
TTAGTGGTTGAAANTAAAAAAAAAAAAAAAAA
Sequence 2188
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AGACTTCCAGCCTCCAGGATTGTGAGAAGATAAATATCTGTGGTTTAAGTCACCAAGTCT
GTGGTGTGTTTTATGGCAGCACAAGGTAACCCAGATGATGCCTTTCACCACTGGGTGGTC
CAGCCTTTCATGGAAGCTGTCAGCTTCTCAGCCTTGCAAAAAATGCTTGCTGGTCACTCT
CTTTGGTCCTTTCAGATGCCTTTCTTAGTGGTGCCTCTACCAGGCCCTTGACTTCATCCT
TTTCTGTCAAGAGGAAGGGTGAGTAAAGTACCTGCCCG
Sequence 2189
CCGCGGTGGCGGCCCGCCCGGGCAGGNACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTT
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TGTTATTTTCAATACATTGTCACAGGGACAGAGGAGGGTGTTAGGGAACTNTGTGACTAA
ANAGTTTTCCATAAATGGGTGGACCTCAGTTTACAAGCATTAAGTTGTTGGGCCAGGAGG
GGGAACAGATCATGATTAGGAGAGTGGAAAANAAAGATGACAAATCACTTTAAGTCANAC
AAACCTCTTTCTGTACCT
Sequence 2190
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GAAACACTTCATGCATCCTCTGTGAATCTGACTATAACCAGATAGAAGAGACACTGGGTT
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Table 1

CCTTAGACTCAGTTGGACCTTTTTGTGCTGATGAGGATGAATGTGCAGCAGGGAATCCCT
GCTCCCATAGCTGCCACAATGCCATGGGGACTTACTACTGCTCCTGCCCTAAAGGCCTCA
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CCTGCCACGCTGGTCAGGACTGTGACAATACGATTGGATCTTATCGCTGTGTGGTCCGTT
GTGGAAAGTG
Sequence 2191
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ATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGG
GTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTTTGGCTCTGAGTCTCTTTGCAAACAT
GTGTCTGCCCACAGTGACATGAGTTTGCGTTGACTGTCATGTCTGCAGGAAGCTGCCTGC
TCCTGTGGCCATGTCAAGCAATTCTTTCTTTCAACTGCAACTGTGTGTAAGAGCTTAGTC
TGAGAAGA
Sequence 2192
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AACTTGAA
Sequence 2193
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TGTACCTGCCCG
Sequence 2194
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ACGCCTTCAATCCTGACCACTTTCTGGATGCCAATGGGGCACTGAAAAAGAATGAAGCTT
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Sequence 2195
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AGTTTCTATTCCAACTAAAGCCTTAGAATTGATGGACATG
Sequence 2196
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACAACTCACTCC
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Table 1

ATTGGANCCACTAGGAATCCTGAGAAAGAGGAGTGGACATACTCAGAGGAGTATAGGCCA
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Sequence 2197
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TCAGCTACAACTAGTTCCAAATTCTGGAGAAATCAGTTAGAGAGAAACAAATATGTTCCA
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GTCTCCCCGCGTACCT
Sequence 2198
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACAATATAG
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CTCCCCGCGTACCT
Sequence 2199
CCGCGGTGGCGGCCGAGGTACAGAGGTGATAGATCCCTTCTTGGTAGTGGTAATTCTTTC
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GCCTCCCGGCTCTCGTCAGCCTCCCGCCGGCCGCTCTAGAACTAAGTGGATC
Sequence 2200
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GTTTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC
Sequence 2201
CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
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TTNAAGCGCGTGTCCCCGCGTACCTNGGCCGCTCTAGAACTAGNGGA
Sequence 2202
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TNTAATGACAGGAAGGCACTGCTTTCCTCAACACTGTNATCTGACCTGTGACAAGTCTGN
ACCT
Sequence 2203
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Table 1

NTTCCANTTAAAGGGCNTTGGTCNTTNTNCCCCTTGGNTGGGTTNGNANANAAATTTTGG
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Sequence 2204
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CCAGAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGAGC
Sequence 2205
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CCTGCCATGTGAGGAGCCAAGAAGCCGGCTTGTCTGCAACCTGCAAGAGGACCCTC
Sequence 2206
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TTGACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAG
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TCCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAA
Sequence 2207
CCGCGGTGGCGGCCGAGGTACTTTTATAAATACGCCAGAGATTGAGTCGAGGCTCTGAAG
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AGAATACACGGAAAGTTACCCATGGGTGTATTGTTTCCACAATAAAACTTTTTCTACCCA
GATNGGTATNGGAAGCCCGGCTCCGCTCAGATGTCATCCATGCACCATTACCAAGTCCTG
TTGACAAAGTTGCTGCTAACACTCCAAGTATGTACCTG
Sequence 2208
CCGCGGTGGCCGGCCGCCCGGGCAGGTACACACAAAGACAAACCTGAACTTAATTTCAAG
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GCCTGCTCCTGTGGCCATGTCAAGCAATTCTTTTCTTTCAACTGCAACTGTGTGTAAGAG
CTTANTCTGAGAAGAAATGTTCAGAAGCTCACTTGTGGGCTGCACATCTGAGCCATGTCT
TTCCCA
Sequence 2209
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGCCATTGAGACTGCCATGGAA
GACTTGAAAGGTCACGTAGCTGAGACTTCTGGAGAGACCATTCAAGGCTTCTGGCTCTTG
ACAAAGATAGACCACTGGAACAATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACT
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Table 1

CTGGACAAGAGACAAGGAGAAGGCCTTAGGATCTACTGGGGGAGTCCGGAGGAGCAGTCT
CTTCTGTCCCGCTGGAACCCATGGTCCACTGAAGTTCCTTATGCTACTTTCACTGAGCAT
CCTATGAAATACACCAGTGAGAAATTCCTTGAAATTTGCAA
Sequence 2210
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GCGCGGCTACAGCACGGTTCGTTTTTCCTTTAGTCAGGAAGGACGTTGGTGTTGAGCATA
CCGTATCAAGGACAAGTAACTACCATGGCTCCCGAAGTTTTGCCAAAACCTCGGATGCGT
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Sequence 2211
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GCAAGAATTTCAGCCATTTACTTTTTCTTTAAAAGGATTATCANAGGAGGTTAGCCATCC
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Sequence 2212
CCGCGGTGGCGGCCGAGGTACGCGGGGACAGCGATGTGAGCTGAGGTGCAGGCACCAGAC
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CTGATTATGATGATAATGATGATGATTTTGGTGGTTGCAATAGCAAAGCCTTAAGTATGA
AGGAGACGTGCCAGCTGGAAATACAGGTAGACAATGAACAACTGAATTTAGAGGACGAAG
ACATTGAAAGCATTGATGCCACCAAATTGAGCCGTTTCATTGAGATCAACAGCCTCCACA
TGGTGACAGAGTACCTGCCCG
Sequence 2213
CACTNCTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGGACCCGGGGGCTTGN
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CTAGGACTCATCATTGTCCCCTCCCTGGCATTTTTTACACCTGGAGCAGTCAGAGGACGC
ATGCATGGCTCTTCGGAAGCCTTCTCCTGCCACGGCATGCACCCACACATGCGAGCCTCC
CGGGTACCTGCCCG
Sequence 2214
AGGTACAGGCATGAGCCACTGCGCCTGGCCCCATGTTTGGTTATTATTAGTGCTTAGGAA
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TCTATTCTCACCTCCTGACCATGCTCTTTCTGCCACATCTATTATCATTACAAGTTGCCT
TATCTGAAATTAGTGAATCAGAAAATAAAGCAGGGGATACTTTGTGTAGTTTCAACGTTA
GGGAAAGTTCAGAATACTGTCTGTCTAAACTATCTCTCTAGAAGGCCTGATGGGCCACAA
CCTGGGCCAGAAGCATTCAGTTCAGATATGAGAATGGTGGGGTGTAAGGGGCAATGGCCA
ATGGGCCATGGCCGGAAGGAAATTGTTACAGAGTAGTGGGAAGCCTGCAAAGACTGGCTT
CTGTCCGTTTTTGCCTT
Sequence 2215
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AATGAGAAGGAGAGAATTCTACTGGTCACAGACAAGACTCTCTTGATCTGCAAATACGAC
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TCCCTGGAAGTTCCTTATGCTACTTTCACTGAGCATCCTATGAAATACACCAGTGAGAAA
TTCCTTGAAATTTGCAAGTTGTCTGGGTTCATGTC

Table 1

Sequence 2216
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGATTGACATCCCACACTACC
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GTCCCAATACTCTTCAAAAGTGTCAGGTCCTGGAAGACAAAGAGATACTGAGGAACCATC
ACAGAGTGGGAGAGGACATAGAGTGATAAAAACTAACTGTGATGTGGAATCCTACATTGG
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NTTTGGTTTAAAGAAGAAGAATAATAACAATAATGGTTTAGCTGCTGGCTCCTTAATAAA
ATTCCCCTAGTTACTGTAATGTCTGAAAATGAACCCC
Sequence 2217
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GGTTTTCCATCTATCATGAGTCTAGTGTTCTCACCTTTGTCTTACAATTAATTCTTCTGC
ANATCCCCTCACACTGATCTCCTCCCCCTGAGCTTTGGACAATTATATTCTCTCATCTCT
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Sequence 2218
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TACATTGNGCAACTNTNATGTCCCCTTNTGACAAAAAAGGCACATAGCCAGGNGTATGTT
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Sequence 2219
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CGCAGGGAGATACACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAAC
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Table 1

GGGGAATTGGAAAATTACTAATTCATGAAAATGAAAATGTGGGCTTCTTTTAAGGAAAAA
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TGGGAACTGCCACCATCATCAGTGAGAACTTGAACAATGAGGTCATGATGAAGAAATACA
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Sequence 2227
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Table 1

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Sequence 2232
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Table 1

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Sequence 2236
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Table 1

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AGACCAGAGGAGGGAGGC
Sequence 2243
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Table 1

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Sequence 2246
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Sequence 2247
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AAC
Sequence 2249
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Table 1

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Sequence 2251
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Sequence 2252
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CCCTGACTTCAAGTTTCCATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAG
GGAAGATTTACCTAATGGGTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTTTGGCTCT
GAGTCTCTTTGCAAACATGTGTCTGCCCACAGTGACATGAGTTTGCGTTGACTGTCATGT
CTGCAGGAAGCTGCCTGCTCCTGTGGCCATCCCGCGTACCTN
Sequence 2253
GGAGGCTATGCAGATATATTCTTTTCTCTTTAAAGTTTTGCCCACCAGTTTTAGAATTCA
TCAGTAAATCTTGTCTACAGTAATTATTACTATTTGCTATTCTAATGGGAATTTTGTATA
TCTCCATCCCTTCTAATATATTTAACAACTGAATTCTATAAACAAGATTTGTTTCTTCTC
CACATTATTTATTTTATCAATACAGACACATACTTTGGGGGTTATAATCCAATACTATTG
TTATTTATTATGTNGTTCATATTGTTCTAGCTTTGGCTACTGGGATCTTTTATAAGTGTN
TTCTGTGNCCTTTTGACATGCCCCATTTTTTTCTTTTTAAGCACATCTTTACTTTCTGAG
ACTACAAGATTGTCCAGGTTCTCATCTTGTGTTTTCCCTTCCCTAGCCTTGGAATGAGCT
GNTTTTCCAATGATCTCTAGTTCCTTTATTAGAAAATGGTGGCCAACATGGTGAAACCCC
ATCTACTAAAAATACCAAAA
Sequence 2254
CTATAGGGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTCTTCTAATTGATC
ATATCTGCTTATTTTCCTCTGGATTAAGGATCAAGGAGATAGTATATTAGATGATTTGAT
AAATTTCCAATGCTTTGCAAAGTAGTTGAACAACTTTTTCTTTGTGATGCTAGGTGGCAC
TACTAGTCAAGACTTGGTATTTCATAGCTGGCTTTCTTATTCTGAAGGTTGTAAAAAGAC
ATATGAAGTAATATTTAACATTGAAAACATGATAATCAATTTGATTATCTATGAATTGTC
CTAAACGTTCAGAGTAAAGTTTCCTTTAAAGTTAAAATCTTTCAAGTGAAGGAAATTATA
AAGTCACATGTAAACACCAAAATAAGAGGAATAGAGCAATAGGATATTTTTGGCTTTATA
ATTCAATTTAAAAATTAAGGTGCATTTATTTTTTTGGCAGCTGGCCATAAAGCTTCAATG
TCCAGTAAGCAGTTGCTATCTATGATTCATGAGATCATGGGGTT
Sequence 2255
CCGCGGTGGCGGCCGAGGTACGCGGGGACANGGCCATCTCGCTATAGGAAAGGAAAGTG

Table 1

GAACAGCATTCATCCTCAACATTTTTACGAAGACAAAATGAAGACTGGAGTAGAAGACTG
ATCAGTGCAGGTGTAGCATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAAGCATTAT
CANCAATNATGCNTNTTNCCAATCCCAAACCATGGGGGGTTTCTCACAGCTTTACACCAA
AGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCTTGCCCG
Sequence 2256
CCGCGGTGGCGGCCGAGGTACACACTTGTGTGCATTTCTGTTGGGTATATAACAAGTATG
AAATTGCTGGGTCTTAAAATATTTATATATTAACTTCATTAAATGCTGCCTAAGAATTTT
TCAAGCGGTTGTGCTATTTTACCTTCACCAGTTCTAGTTGTTCCATATCCTTGCTGTCAC
TTGGCATTAATCTGAATTTTTTATTTTGACCAGACTGGTCTGTGTGTCATAGTATCCCAT
TGTCATTTTAAGTTGCATGCCTTTGATGAAGACATTTTCTGATGCTTAATTGGCTCTTTG
AATATATCCTGTAACTGATTTGTAGGGAGNTTTTATATATATTCTGGATATAANTNTTTT
TATNTGGACATAAATATTTCGCAGATTATCTNCTCCCACTTTTAACTTCCCTTTTTTC
Sequence 2257
GATCCTATATGGCGNNTAGGGGCTCCACCCGCGGTGGNGGCCGCCCGGGCAGGTACGCGG
GGGGAGCGGCCAACATGGCGGAACGCAGGAGACACAAGAAGCGGATCCAGGAAGTTGGTT
GAACCACCTAAAGAAGAGAAGGCTGTGGCCAAGTATNTTCGATTCAACTGTCCAACAAAG
TCCACCAATATGATGGGNCACCNGGTNTGATTATTTTATTTGCTTTCAAAAAAGCAGNTG
NGACTTGTCTTTTTGGAATTCAAAAAGATGGGGNCAAAAGGCTCAAAATATAATGGTAGT
AGNGAAGCCTTTTATTTTTACCAAACCAAGGGGGAGGTCCTGTTGGGTTTGGACTTACCT
GGCAAACCAGGCCTTTTTAAAAGGAAAGGCAGTTTTTTTTTTTCACCNGGAGGCNCCTTA
AAAAAGTTAAAANTGNAAAAAATTGGAANATTAATTGGTTATNTATGGACCATATATNGA
GNACATATANTNCATNTAATTNAANAAANAAAGGGTACCCCTTTCGGGTCNCCGCNTTNC
TAANGAAAACCTANNTTNGGGGGATTNCCCCCN
Sequence 2258
CCGGGCAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGTGGCAGGAGAAGGCTTC
CGAAGAGCCATGCATGCGTCCTCTGGCTGCTCCAGGTGTAAAAAATGCCAGGGAGGGGAC
AATGATGAGTCCTAGGCAGGAAAGGTCCTCTGGAGAGAGGAAATGGCACACGCGCAAGCA
CGGAGGCATGAGGGGCCAGGGTCCTGGAGGACACTGGGCCGGGACAGATCAGACTCCCCC
GCGTACCT
Sequence 2259
CCGCGGTGGCGGCCGCCCGGGCAGGTACATCTTTAGAGAGTAGAGATACATCTGCATATA
AAAAAAAAATCTGCCGTAAGTGATAGAGTTGAAAATAATGTCCTACATACCAGAATGTTC
TTCTGAATTAGGCATCATGTAGGTATTCAGCATTCTTTCCATTTCCAAATTGCTCCCACT
CCCTGTTTTTTCATCATCCCCCTTTTTTCCTCATTAGCTCATTTGGAAATAAAAGATTTT
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GTAGTCATTCTTCTCACTGCAACCAATGTAAGATAAGCAGGGTAGATCTGTTATTTCCAA
ATTAAAGGTGGATTAAGATATATGGAGAGAGAACATGGCATGTGAGGTTTATAGGGCTAG
AAACTG
Sequence 2260
GCGAATTGGAGCTCCCCGCGGTGGCTNAAACATCTTTTTCTTCTTAGTCCCAGGTTGTTC
TCATTCGTGGCTGGATCACACCAGCAAGAAGGATTTTAAAGGACAACTCCTTGGGGCCGT
CCAACACTGAAACCGCCTGACCGCTGCTGTCTTTGTGCTTGCAGAAAATCACGTGGCCCC
GGAGAGGGTCAGCGANGGGCCTCCACTGTCTGAGTCCGCTCCTGGCAACGCCTGCTCTCT
GCACTCAGAGGCCCGGTCCCGGCAAGCTGCCACGTTGCTCAGAAGTTCTGGCAGGGGGAG
CCTGAAACCCCTGTCTGCTGGCGACACTCCCGGAGCAGCAGGAAATCTCTACATTTTATT
TTTTTCTTAACAGACAAAAGTATTTGACTCCAGAATGATTTCCAGGAATTACAGTATGA
GAACTTAGTCTTTGAGATTTTTATTTTCTTCTTAAAAAAATAAAAATGAAAT
Sequence 2261

Table 1

CCGCGGTGGCGGCCGAGGTACGCTTTGACGACACTCTCAGACATGCTGTGCAACTTAACG
TCACTGCCACCCGGCAGCTCTTGCTTATGGCTAGTCAGATGCCAAAGCTGGAAGCCTTTA
TACATATCTCTACTGCCTATCCAAATTGTAACCTGAAGCACATCGATGAAGTTATCTATT
CCNGCCCTGGNGGACCCAAAAAAAATCATNGATTCCCTTGAGTGGTTAGACGATGCTATT
ATTGACGAGATTACACCCAAGCTGATCAGAGATTGGCCCAATATTTATACCTACACCAAG
GCCTTGGGAGAAATGGTGGTGCAGCAAGAGAGCAGGAACCTGAACATTGCCATCATAAGG
CCCTCCATTGTGGGAGCAACTTGGCAGGAGCCTTTCCCAGGTTGGGTTGATAATATAAAT
GGACCTAATGGAATCATTATTGCGACTGGGAAAGGGTTTCTTCGGGCCATAAAAAGCTAC
TCCAATG
Sequence 2262
CGAGGTACGCGGGGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCT
CCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATAC
ACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGA
CAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTTTGGAGGTGGAGCCTTCAGAAGGT
AATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCCTGCCATGTGAG
GAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACCCTCACTAGAAGCTAGCCATAC
TGGCATCCTCATCTTGGCTTTCCAACTTCCAGAACTGTGAGAAGTATATGTTTGTGGTTT
AGTCAATGGTCTATGGTAATTTTTTTATAGCAGTCCCAGCCAAGACAGTGCCTCATTTAC
TACATACCATTTATATTATTATATAGGCTCCTTTCAGAAACCCATGTTCAAATAAGAGAT
AAGATACTGAAACACATAACACCTTCACTAGTTTTTAGTATACAAATATTGAGAAATAGT
TTGGTATTAACTATCTCATNCAAGAAATGCAGATTCATGTTGGTTCTAATTTTTATTATA
TAAATGACAAAATGNAGAAACTTAACACCATCCTAGATTTTAGCTGCCCCNG
Sequence 2263
CCGCGGTGGCGGCCGAGGTACCTTAGATTTCTATGGGACATCGTTTAAAAACTATTGTTT
ACGCGAGAGCCTTGCTAATTTCCTAAAAATTGTGGATACATTTTTTCTCCCATGTATAAT
TTTCTCACCTTCTATTTAAAAAGAAAAAAAAAAGTCAGTGTAGTATTTACATATTTTACC
CTATAAGGAGCTAACATAACTTTTGATTTAGTGTTATTCATAAAATTAGGTTAGCAGTTT
ATTAACCTTTTGTATTTGCTCTGGCAATGTTTAATATCTCATAAGCTATACACACCTCGA
AGCCATCAATGACAACCTTTTCTTGCTGAATAGAACAGTGATTGATGTCATGAAGACAAT
TTTATCTCCTTTTGCCTTCCATAATTTGTACCTGCCCG
Sequence 2264
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTNNNTTTTTTT
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ACTNGATTTTTTTCCTTCATCGGCAGCAGACTCTGACTTACCCACCTTTCCCACTATTTC
TTTGAGTAAGGATTTGAATAATTTAAGCCTTCACATTNGGAATTTTATCTCTTTTAATCT
TTGNAAATATTATGAGTAAAAATCAGGAAATGCCTCACTGGTNCCCTTGGTTTCTCAGAC
AACTCACTGATTTATGGTCTTGAGACCATAAACTCA
Sequence 2265
CCGCGGTGGCGGCCCGAGGTACAGGAGGGAACCAGGCGCTACAGACTGTGTAATGAGTGT
CTTGCAGAATTTGGCATAGACAGCCTCCCCATTGACTTGGAAGCTGAACAACATCTTATG
TCCCCATCAGATGGAGATAAGGATTCCAGATGGCACTTGAGTGAAGATGGGAATAGATCC
TATGTGGAGATTGTAGAAGATGGGTCTGCTGATCTGGTCATCCAACAGGTTGATGATAGT
GAAGAAAAAAAAAAAAAAAAAAAAAGGTACCTGCCCG
Sequence 2266
CGCCCGGGCAGGTACGCGGGATTGACATTGCAAGAAGCAAATGTTACCTCTAATAGCGTG
GTCCAAAATAATGTCTATTTACATTCTCAGAGCACTTTGTCAAGGTTATTCAGTTGAAGG
CTGTAACACTCTCAGGAGTTAATCAAGAGCAATGGCATCTATGTTTATTAGTGAAGGGAA
GACTTACTTGCACCTACTGCATATCTGAGTTTACTGAGCTCAAACTGGAATTTAGGAAGC
CAAAAAAAAAAAAAAAGAAAAAGAAAGACAGTGTAGACAGAGGCAAGAAAGTAGAGTGAT

Table 1

TGCATTTGGGCATCTGAATGACCCATCTTGGAATCACAGCTCAGTCACTGGCTGTATGCC
TTGAGAATGTTTCTTCTCTGTTCTGAGCCGCTGGTTCCTTATTTATGAGATAAATGAGGA
ACTGTGCTGCACGCAGTTGGTTGGAGCCTGAAATGAGATAATGGATGTTGTCCTAGTTAG
AAGATGAGTAATTTTAGGGCCGGATGTGTTTGGCTCACGCCTGTAATCCCACCAGTTTGG
GAGGCCAAGGGTGGGCTGATCACAAGGTCAGGAGATCAAGACCCGTCCTGTTTAACACGG
GGAAACCCATTCTTTACCAAAAAATACAAAAATTAGCCANGNCTTGGTGGCGGGTTGCCT
GTAGTCCCAACTACTTAAGGAGCTGAGGCAGGAAAATGGGTGTGAACCCTGGGANGCCGG
ACCTTGCCAGTGGNGCTGANATTGGCACCAANTGGCCTTCAACCCTGGGCGANAGANACG
AGGACTNTGTCTTCCAAAAAAAAAAAAAAA
Sequence 2267
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGAGGGAACCAGG
CGCTACAGACTGTGTAATGAGTGTCTTGCAGAATTTGGCATAGACAGCCTCCCCATTGAC
TTGGAAGCTGAACAACATCTTATGTCCCCATCAGATGGAGATAAGGATTCCAGATGGCAC
TTGAGTGAAGATGGGAATAGATCCTATGTGGGAGATTGTAGAAGATGGGTCTGCTGATCT
GGTCATCCAACAGGTTGATGATAGTGAAGAAAAAAAAAAAAAAAAAAAAANGTNCCTGCC
CG
Sequence 2268
CGAGGTACGCGGGGGAGCGGTGAGTGATCCTTTCAGCAAAGTCAGTCCTGGGCAGGAGAC
GGCTTCAGGAATACTGTCAGCTTTACTGGATTCCACCATCGCTTTCCAGGACTGTTTAGG
CCCTGGGCCCTTGAAGGGTTTGCGTGCCTCTTGTCTCCATTCATACCTCAAGAACTTTGT
TCATGTTAATTTTTTTTCACTCTATCATATGGAATTGAGCAAAAAAAAAAAAAAAAAAA
AAGGTACCTGCCCG
Sequence 2269
CCGCGGTGGCGGCCCGAGGTACCCTGCTGAAAGATTATTTCTAACAGGCTTGTAGAGAAA
CGTCGGTTCATGTAAATTAGAAATTATGGGGCCACTTTGCCATTCTTCACACCTGCAATG
AACAGGTGTTTATCTGCAGTTCTGACTTATCTCTTGAACTCCATTTGCATGTTATAGTGG
GATGCAGCTGATGCCCTGTCCAGATCTTCTTCAGGCCACTACATCTATATATGCATTCAT
ATTCCAGTGGCTGTGAGTGTTGGCTGTTGGTTGACAGAGGAGCTGCATCCTCCTGGAGGA
AACTGAACTCAGCTGATGAAAGCCACCTGGTCCTGGAGGTGAAGCATCTTCCAAATGACA
GCCTGCAGTCAATGACTGATGAATATGACTTCATTGCCTCATGACAGGACCTACTCTGGG
GTATAGATCATGCTTCTAAGCTCCTCCTGGGGTCCTGCTGAGGCTCAATGCCAGCTGAAA
CCATACCCTTGCTCACATACTTTCCCTTCTCTTTCCTTCTTCCCTTGCTTCCTTAGAGAT
TCCTCCTGCAATGGCTTCCTCAAAAAAGCATTTTCATAAGCAACCTCATGTCAGCCTCTG
CTTTCACAGAAGCCAATCTGANGTTAACAAGCTTGTTTAACTTAGCATGTCCAACATAAA
ATTCTTGGTTTCTTCTCATCCCCTGCCC
Sequence 2270
ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATG
GAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTAC
TTGTAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGA
AAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATCAAGAGA
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AGCTTTGAAGAAGTTTACAAAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAAC
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GCAATGTGATGGTGTTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAG
AGGCCAGAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGAGCCAAGAAG
Sequence 2271
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATGATTTT
TTATTTTAAAATAATCTGGAAGTAATGGGAACTTAGTTTTTCCTGAACTCCAACCAGAAT
CCAAATTGGTTAGATGAGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCGGCACTTTGGG

Table 1

AGGCCGAGGTGGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGT
GAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGCGCCTGGTTGAGG
CATGAGAATCGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCAAGATCATGCCTACTG
CACTCCAGCCTGGGCAACAAAGTGGGACTNTGTCTTAAAAAAAAAAAANAAATAATCGGT
TAGATGANGAAAGCATGTATATTTTCTATATACCAAAAAC
Sequence 2272
CTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGTGCCCAGGTCTG
GCATCCTGCACTTGCTGCCCTCTGACACCTGGGAAGATGGCCGGCCCGTGGACCTTCACC
CTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCCCACTGCAGTT
CTCATCCTCGGCCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAAC
GCCACCAGCATCCTGCAGCAACTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGA
GGCATCCCTGTGCTGGGCAGCCTGGTGAACACCGTCCTGAAGCACGTCATCTGGCTGAAG
GTCATCACAGCTAACATCCTCCAGCTGCAGGTTGAAGCCCTCGGCCAATGACCAGGAGCT
GCTAGTCAANATCCCCCTGGACATGGGTGGCTGGATTCAAAC
Sequence 2273
CCGCGGTGGCGGCCGAGGTACGCGGGGGCATTGTTGGAAGTTTACTCTGGTTAAAGGATA
GAGAAAAAAATGGAAAGAGGAGGGTAATCACAACAGTCTAGGCAAGAGATGATGGTAGTT
TGGAGACAGAAGGTGTGGCAGTGGACATGAAGATAAGTGGATGGATTTGAGAGAAACTTG
GAGAGTGAAACTGCATGGATAGTGATGGATCAATGACAGTAGACTGGGATGAATGGAAGT
ACCTGCCCG
Sequence 2274
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
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CTTTGAAATAGGACATAAAGTCATACAGTATTTTTACATAATTTTCTTGCTTTTCAATAA
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TTGNCTTCATCATAACAGAAATCTATAATAATAAGAACTAGAGCTNTCACAGCACCTNTC
ATNTGCTGACACTGNGTTAAACACTNTACATCCATCACCTCCTNTAATC
Sequence 2275
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGTGG
GAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTCACCTAAGCCGCAGGGAGA
TACACCCAACTGGGAGATGAGGAAACAGCAACCCAGAGAGGAGAACTAACCCACACAGGA
TCATTTCGCGAAGGAGCAAGGCTGAAGAACCAGACCTGGACTTTCTTAGGACAAACTTAC
TGCAGCTTGAAGGAGCCAACCATGGATTTGAGGCGTGTGAAGGAATATTTCTCCTGGCTC
TACTATCAATACCAAATCATTAGCTGCTGTGCTGTTTTAGAGCCCTGGGAGCGATCTATG
TTTAACACCATCTTACTAACCATTATTGCTATGGTGGTATACACTGCCTATGTCTTTATT
CCAATCCACATTCGCCTGGCTTGGGAATTTTTCTCAAA
Sequence 2276
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGACGGGGCTGTAAT
CTGGTAACTGTATGTATTTTAGTTCTTCAGTCCCTGGGAAGGAGACAGGAGAAGGTGGGA
GGGAGGAAGGGGCCAGCTGAAATGGAAACAGATCCCTGATCCGGGGCGGTCAGTGGAACC
CTTCTTGGTGTGCGAGAGCCTGTGCATTTCAGAGGCAGCAAAAAAGTTAAAAAAAAAAAA
AAAAATTGATCTTTGTTTAGATTAACAGACCCCTGACTATGAANAAGGAAGGCATCCAGA
CCAGAAACCGAAAAATGTCTAGCAAATCCAAAAAGTGCAAAAAAGTGCATGACTCACTTG
GAGGACTTCCCCAAGAACAGCTCGTTTAACC
Sequence 2277
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTTGC
AGTGAGCTCAAGTGTTGGGTGTATCAGCTCAAAACACCATGTGATGCCAATCATCTCCAC
AGGAGCAATTTGTTTACCTTTTTTTTCTGATGCTTTACTAACTTCATCTTTTAGATTTAA

Table 1

ATCATTAGTAGATCCTAGAGGAGCCAGTTTCAGAAAATATAGATTCTAGTTCAGCACCAC
CCGTAGTTGTGCATTGAAATAATTATCATTATGATTATGTATCAGAGCTTCTGGTTTTCT
CATTCTTTATTCATTTATTCAACAACCACGTGACAAACACTGGAATTACAGGATGAAGAT
GAGATAATCCGCTCCTTGGCAGTGTTATACTATTATATAACCTGAAAAAACAAACAGGTN
ATTTTCACACCNAAGTAATAGATATCATGACACATTTAAAATAGG
Sequence 2278
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCATGAGAGACAAAGCTGAGAAGTGTGGTG
GAAAAGGAAGAGAGAGCTGAGGCAGACGATGTAAGATCTGCTGTTACTTCTTGCTGTGTG
ACCTTGGGGTGAAGCAGCAAGAANGCCCTTGCTAGATGAGGCTNCTCAACTGTAGACTNC
CCAGCCTCCANAACTGTGAAGNGAAGTGGGTGTGCCTGGGATCNNACACAGCTGCTAAAA
GAAGGNCTNAAGAGCCACAGATGTCTT
Sequence 2279
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAGATGGAAG
GAAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCACCTAGGTTACTTGT
AGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAAT
GCAGTGAAGTANAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATCAAGAGAAGAT
GAGAGGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAAAAAA
AAAAAAAAAAAAAAAAGTACCTGCCCG
Sequence 2280
CCGCGGTGGCGGCCGAGGTACGCGGGGGCATTGTTGGAAGTTTACTCTGGTTAAAGGATA
GAGAAAAAAAATGGAAAGGGGAGGGTAATCACAACAGTCTAGGCAAGAGATGATGGTAGTT
TGGAGACAGAAGGTGTGGCAGTGGACATGAAGATAAGTGGATGGATTTGAGAGAAACTTG
GAGAGTGAAACTGCATGGATAGTGATGGATCAATGACAGTAGACTGGGATGAATGGAAGT
ACCTGCCCG
Sequence 2281
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGATT
AGTTAAATATAAGACTCCGTAATTTTTACAATTTTAACAATAATTTTATTTCTTCAAGCT
TGTTAGTTTGGGATTGTATTAAAACTACAGTGTGTGACTTAGAAAATGATAATGCTGCTT
TATGGAAAATGGATTATAGGTGGGTAAGACTTCATTGCAAAAATTGTGTAATACCATCAG
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TTTGAATAGATATTGGTAATATCAGTAGAATTTAATAATACATTAGAAAGAAAGAAATCA
GAGAAGATTCTTTTATTTTCACTTGATACTTGTGTTGTTACTTTCAATGAGATAAGAAGG
ACAGGCAAAGGAGAAAGTTCGGGGGCAGGGGATGAGAAGAAAACAAGAATTTTATGTTGG
ACATGCTAANGTTAAACACCTGCTTAACTCAG
Sequence 2282
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATTGA
CATCCCACACTACCTGATTTGATACACTAAGAAGGGCTTATCATTTCTGTGGTACTCTTG
GCCAACAATGCACGTGTAACATTTATTCATTGAAACACATTAGGCAGAATTGCAGGACAT
TCTTCAAAATAGCTGTCCAATACTCTTCAAAAGTGTCAGGTCCTGGAAGACAAAGAGATA
CTGAGGAACCATCACAGAGTGGGAGAGGACATAGAGTGATAAAAACTAACTGTGATGTGG
AATCCTACATTGGATCATGGACCAGAAAGACAGCACTGATGGGAAGACTGATGAAATCTG
AATAAGTCTGTAGTTTGGTTTAAAGAAGAAGAATAATAACAATAATGGTTTAGCTGCTGG
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TACTGTGACTGTTCACTGCATTTGAGAATAAAGAATAATTAAGGAAAAAAATACTCTGTC
AGCCTAGGCAATATAGTGAGACTCTATCTGTACCT
Sequence 2283
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCNCGCCCGGGCAGGTACCAGGCAGGATGGAG
CAGGATGGTGTGAGATTTCATCACACTACTCAGGATAGTGCACAATCTAACACTTATGAA
TTGTTTATTTCTAAAGTTTTCCATTTAATATATTTGAAATGAAGTAGACCCTGTGTGTAG

Table 1

CTGAAACTTTGGAAAGGAAAACTATGGATAAGGGGGACTACTAGAATACACTTCAATAAA
ATAGCATTTTAACAAAATCCTAGTGTCCGTAGAGTAGTTCTCCATCTAGCTGTCCATCTT
TCAAACGTGGAGAGAGGTGAGATGAGGGAGAAGTATGGTCAGAGAGGGGAGACAGGTGTG
TGTGGTGTGGGTGTGCAGGTAGATACATAGCTCAGTGTTCACTGTGAGAGGTGAACAGAG
AACATTCCAAGCAATGGGAGTGGCATGATACAAGGCACAAAGAAGTCAAACTGAAAGGCA
CCTTCAGGAAAAAGAAAGGAGTCTCTTGCAATTCATACACAGAGATCGGCACTGGCAAGA
AACAGGACTCTGGGGGAAAAATCAGGGCTTCCAAAAAAA
Sequence 2284
TATAGGGCGAATTGGAGCCTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTAAACAGT
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TGTTGGCACCAGGATGCAGAGAATCAGACTGGCCTGAGGTGAAGGAGCACACAGCCCTGA
GGGCTTGGAACCCTGGGTCCAGTTCCTCTTCACACCCCCTTCCACTCTGAGTAGCACATC
TCCCCAGGTGCCCATGGAACACCTGCTTTCATCCCAAATATCCGTCCACCTAGGCGGGGT
GGTATGTTCTTACGTCTCTCTGACTTTGATGCCACTCATTCTATAGTTTAGCTGGTTTTC
GTTCAAGATATTCTTGGTAGTAACTGACAAGTATGTTGCACATGTATTGGGGGAGGCGCT
TCATTTTTATTTTAATACACATGTATTTCCTCCTTGCACAGGATTTTGATGGTGTGGGAA
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TCAGGCTACCTTTTATACTAAACCTTGAAAACTAGAATCTAATGTCTACCCCAAAAAAGT
AAGTTCTTTGATATTTTATACTTTTTATGTACCTTGGCCCGGTCTAGAACTA
Sequence 2285
AGGTACCCAGACTCCAGTATGAAAACTCTCTGGGCTGTGTCCTATGATCTTCCCATGAGT
AACTCATAGTCTTGATCCAGTGGAATCTGGCCTTCATTAGTCTCAGTGGCAAGTTGGTTA
TGTGGAAAGTCTCTGTTCACTCACTTGGGTGAATAACAGTAAAGACCTTTCTATTGTTTT
CACTTTACATTAGGCCATGAGTATTTGTGCCTGTAGCTGCAGTTTGTGTTAGTTTCCTAC
CCCAGGTATCTCCTGCAGCATGCAGCTTCAGTCCTACCAGACCCTCAAAACTTAAAAGCG
AACACTATTTCTAGGGAGGATTTTGCAGGAAAATGGAGAAAGGGTTACACACAAAAAAGG
TTAAACTACTCTATGCATGTTTCTGCAATGTGTTATCTCAAGAATTCATCTCTGTAGCCC
ATCAGGGCAGGAGCTGGTCTCTCACCTGTTGATAATATTCCATAAGGGAGGTTCTTCCCC
ACAANTGTTTAGTCTTCCGACGCTGGTATAGCCTGACATGATGACATTCTACTTTCATGT
TGGTCGTGCTGCAGGGAGAATTCTGTGAGTGTCCCAATANGCTGGGAATCACTTGCTAAG
GGTGAACCCCA
Sequence 2286
CCGCGGTGGCGGCNCGAGGTACTTTTAGTAGAGATGGAGTTTCACCATGTAGTCCAGGCT
GGTTTCAAACTTCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTAGGATT
ACAGGTGTGAGCCACTGTGCCCAGCCAGAATATATCATTTCACTGGACTCTGCAGGTGCT
TTGGATGATCAAGGAATAGGACATGGCTGTAGAAGTACGCGGGTGTTGAGGAGGCATATT
TTTAAAAGAATCAAATATAATTTAGATAGGAAATGACAAACTCAGCAGACATATTATGAA
GGAAATGAGACATACAGGAGAAGAGAATTAATGAATTGGTTGGAGGCTAGAACTTAATAC
CCTCATTGTAGCCAAGAAGAGAGAGAGAGAAAAAAAAGGAAAACATGAAGGGAATAAAGA
AACATGTTAGTGGGATGAGAGTCTCACATATGTATTCTGTAAAGTAGAAACTGAAGGAAG
GGACAATATTCAAAGTGAGATGACCAAGTACCTGCCCG
Sequence 2287
GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCATCCCCAAGG
ACACGGAAGTATTTCTCATCCTGAGCACTGCTCTCCGTGACCCACACTACTTTGAAAAAC
CAGACGCCTTCAATCCTGACCACTTTCTGGATGCCAATGGGGCACTGAAAAAGAATGAAG
CTTTTATCCCCTTCTCCTTAGGTAAGCTGGACCCACAGTTTCTTTCCCAGACACCAGAGG
GGCAGGTCCTATCCTCAACTTTGAGAAAAAAAATGACAGGTCCTTATTAATTGAGCACTT
AATATATTCCAATTGCTTCACCTGCCTTATCCCCTTCCATCTTCACTACAACCCTGTAAG
GAGGCTTGAGAAAGAAGATGACATTCCCAAAGGCACATCTGGGCAAGCAGGAACTTGGGC

Table 1

AAGTATTTTAACATCTTCTAAACCTCAGTGAATTCATTTTCTTAAAAAGAAAAAAATCTT
GT
Sequence 2288
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTCTGCTTTGATTTCATTTTTATTTTTTTAAGAAGAAAATAAAAATCTCAAAGACT
AAGTTCTCATACTGTAATTCCTGGAAATCATTCTGGAGTCAAATACTTTTGTCTGTTAAG
AAAAAAAATAAAATGTAGANATTTCCTGCTGCTCCGGGAGTGTCGCCAGCAGACAGGGGT
TTTCAGGGCTCCCCCNTGCCANAAACTTTNTTGAAGCAAACGTGGGCAAGCTGCCCGGGA
CCCGGGCCTNTGAGTTGCAGAGAAGCAGGCTGTTGCCAGGAAGCGGACTCANACAGTGGA
GGCCCCTCGCTTGACCCTTTCCGGGGCCACGTGATTTTNTGCAAAGCACAAAGACAGCAG
CGGTCAGGCGGTTTTCAGTTGTTTGGACGGCCCCAAGGAGTTTGTCCTTTTAAAATCCTT

0

Sequence 2289
GNGGCGGCCCGAGGCACTNTACTNTTTTTTTTTTTTTTTTTTTTTTGGGATTTTTAGCTGAT
GAAATATGGTCCCATTTATCATCAGTTCTAACTTCGTGTTACTACTGTTGTTCTTAAGGT
CCTTAAAGTAAATTTTAAGACTCAATCTAAGTGTGTCAGTGTTGATTACCATTCTATTTA
NAAAGGCAGAATTTGTCTTAAAAGATATTTGNCTAAAGTGTGTGTTAGTATTTGTCAAAA
TAAATGGAGGGAGGGAGTGGGTGAGCTGGGATAGAGGCAGGCAGAAAGCAACAGGACAGA
GAGTTNGANANAGAGAAAGAAAAAAAA
Sequence 2290
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCTAAAGAACTCTAGAACATACAGGGTGTAG
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CCTCGGAGCAGGATTCCATCTTTTCCATGGCTGGGGCCCTTGACACATGTCACTGTACAC
TGCTCTTCTCGCTGGGATTTCCAAAAGACCTTGGCTCAAGGTGTCACTTTTGCAGAAAAG
CATTTACTGACTGTTGACTTGGCCAAATCCCTTGTGCTGTGTTTCCTAGCACGGNGAGTT
GCATTTTTCACATGAACTCATGCCTACCTTCTCTTGTTTTATAAGCTTCATGAAGGCAGG
TACCT
Sequence 2291
CCGCGGTGGCGGCCGCCCGGGCAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGT
GGCAGGAGAAGGCTTCCGAAGAGCCATGCATGCGTCCTCTGGCTGCTCCAGGTGTAAAAA
ATGCCAGGGAGGGGACAATGATGAGTCCTAGGCAGGAAAGGTCCTCTGGAGAGAGGAAAT
GGCACACGCGCAAGCACGGAGGCATGAGGGGCCAGGGTCCTGGAGGACACTGGGGCCGGG
ACAGATCAGACTCCCCCCGCGTACCT
Sequence 2292
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GCTGGGTCTTAAAATATTTATATATTAACTTCATTAAATGCTGCCTAAGAATTTTTCAAG
TGGTTGTGCTATTTTACCTTCACCAGTTCTAGTTGTTCCATATCCTTGCTGTCACTTGGC
ATTATCTGTATTTTTTATTTTGACCAGACTGGTCTGTGTGTCATAGTATCCCATTGTCAT
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TTCTGTAACTGATTTGTAGGAAGTTTTTTATATATTCTGGATATAAGTTTTTTATTGGAC
ATAAATATTGCAGATATCTTCTCCCACTTTAACTTCCCTTTTCTTTCTCTTAATCATGAC
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GTTAATGCTTATTTAAGTCTTGCTCAAGAAATTTTTGTCAACTCCAGTGTCATAAAGAAA
CTCTCTTATGTTATAGAAGCTTGGTTTTTTTTTTTT
Sequence 2293
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGAGATGCTGCCACCTAGGTTACTTG
TAGGACCCTATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAA
TGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAA
GAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGGTGTTT

Table 1

GGAGGTGGAGCCTTCAGAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCG
CACCTTCTTCCTGCCATGTGAGGAGCCAAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGA
CCCTCACTAGAAGCTAGCCATACTGGCATCCTNATCTTGGCTTTCCAACTTCCAGAACTG
TGAGAAGTATATTGTTTGTGGTTTAGTCAATGGGTCTATG
Sequence 2294
CCGCGG1GGCGGCCGAGGTACACTGATTTCCGATCAAAAGAATCATCATCTTTACCTTGA
CTTTTCAGGGAATTACTGAACTTTCTTCTCAGAAGATAGGGCACAGCCATTGCCTTGGCC
TCACTTGAAGGGTCTGCATTTGGGTCCTCTGGTCTCTTGCCAAGTTTCCCAGCCACTCGA
GGGAGAAATATCGGGAGGTTTGACTTCCCCGCGTACTTTGGAGTCCCCTGGTTTCTCAAG
AATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACTG
CACTCTTTGTCTTTGTCATGGAAGCCGCGAGCCGTAGAGGTTCCGCGTGCTCTGCCGGAC
TGTGAGCAGGNTCACTGGGTCCTTTACACTTGTGAATTCGAAGCTTGCCAGA
Sequence 2295
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGATTTCCGATCAAA
AGAATCATCATCTTTACCTTGACTTTTCAGGGAATTACTGAACTTTCTTCTCAGAAGATA
GGGCACAGCCATTGCCTTGGCCTCACTTGAAGGGTCTGCATTTGGGTCCTCTGGTCTCTT
GCCAAGTTTCCCAGCCACTCGAGGGAGAAATATCGGGAGGTTTGACTTCCCCGCGTACTT
TGGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAC
GGTAACCAGACTCCCTACAACTGCACTCTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGA
GGTTCCGCGTGCTCTGCCGGACTGTGAGCAGGTCACTGGGTCCTTTACACTTGTGAATTC
GAAGCTTGCCAAGATGTATCCCCAATGCATTGCCACTTCTGCCCCGGTTGT
Sequence 2296
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AGTTAGAGTCCACATCATGTCTCTCTGAAGAACAGNTAAAGTGTCTTCTGGATGAATGCA
TACTTAAACAAAAATCCATCATTAAACTTTCTTCAGAAAGAAAAAAGGAAGACATTGAGG
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CCATTAACCATGGTTCAAAAAGCTTCTTTGTTCCACTTGAAAGCCAGGAAGAAAATATTG
AAAANTGCCCTTTTCAAANTTT
Sequence 2297
AGCGGCCGCCCGGGCAGGTACACACACTCACGCATGCACAGGCACACTCACCGGGACACG
CACACAGTTGTGCTGTGCACACAGGCATACACACACACACCCTCACACGCACACACACTC
GCTGGATCACTCACACACACACATCCACGAGAGGCGCGGCGCCTCTTTGGTCGTGCAGCC
AGCCCCTGGCTTGCTTTTGAAGGCTCTGCTAAGTCGATGGTCAGGTTGCCAAAGGGCCGG
TCATCTCGCATCCTCCCTCCCTTCGGTGCCTCTGGTCTGATGTCCAGTGAGGATCAAAGC
CAGGAGAGCGAGATGGAAGTTTTCCTGCTGCAACGCTTAAGCTCCGGTTGAACACAAGGC
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0

Sequence 2298
CCGGGCAGGTACGCGGGGGTAGATGGAAGGAAGAACTTGTGTGCTTAGACCTGACGCTGG
GAGGAGATGCTGCCACCTAGGTTACTTGTAGGACCCTATACGGCAACCTCCTTTGCCAGG
AACTATTTATAAACATCCTGCAGGAAAATGAGTCTATATGTCAGAATACACATTTCCCAC
CTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTA
ATGGAAGTCAGCAATGTGATGGTGTTTGGAGGTGGAGCCTTCAGAAGGTAATTAATGCCC
TTGTAAGAAGAGGCCAGAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGAGCCAAGGAA
GCCGGCNTGTCTGCAACCTGCAAGAGGGACCC
Sequence 2299
GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTAATAGTATCA

Table 1

GGCATTGGCTTAGACACTGAGGATAAGAGCTCTATATACTTGTGAACTTGGTGAAAGTTG
AGAAGGATGGAGAAAGAGATAGAATGAATATAAAAATATGAGTAGAGAATTGCTTTAATT
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TGGAATTGCTATTTTTAGGTCATTCAGAGTTAAGGACAAATTTCAATTGTCACACATAAA
AGGTCTTATTTACATAAACAATTTTACAGGGCTTGTACAAATACAAGAAACCAAAAGCCC
TAACTGCTGTTTCTCATGGGGTTAAATCTGTCTCTTCAATCTATCAAATATTTGGCTTTA
GAATCCTAACAGTCTTTAGCTATCATTCAAAG
Sequence 2300
GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGAGGGCTGATTTATCACATACG
TGGGTTCTGTAGGGCCCACTGTGGGACTTGAGTATGCATTGGGTTTTTGTATACTCAGGC
GTTCTGGAACTATCCTCCATGTATACCAAAGGATGGTTATTTCTACAAAAGCAGGAGGTA
AAGCCCAATGCACAGCTTGCAGATTCCCCTCAGGCGAGAGACAGAGGTTAAGGGTAGATG
GCAGATGACCTAAGTGGCTTGTTTTAGGAGGCCACTCCCAGGGCCACAGCTTTCATGTGT
TTGCCACCAGGGTAGAAGGTCTTGCTGACAAGGGCAATGACTACTAACAGCCCCAGCTTG
CATGGAAACAGAAAAGGGCATATTGCTTGTGGCCACCAGGGCTCAGGCTCTATCCCTCAG
CAAGCTTTGGGATC
Sequence 2301
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TTTATTCACTTGGAGTAGAACTTCCTAG
Sequence 2302
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TATACGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGCAGTGA
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GAGGTGGAGCCTTCAGNAAGGTAATTAATGCCCTTGTAAGAAGAGGCCAGAGAGCTTGCG
CACCTTCTTCCTGCCATGTGAGGAGCCAAGA
Sequence 2303
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CAAAGGANAAAGTTCAGGGGC
Sequence 2304
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GAAAACAAATTGCATGGCACTGTATCCTCTCAGGACATTTTGAGATAAGATGTGAAAATG
ATACTCATTGGAACCAAAAAAAGATTGAAAATAATTTTTGTAGAAAATATAATTAATTTA
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Table 1

TAAAATTATGAGTAATTAACTTTATGACAGGTAACACTAATAAAGTGCAGTGGCATGTTC
CTGAAATCCCAGCATTTTGGGGGATTGAGGTGGGGAAGGGATTACTTTGGAGGCCAGGGA
GTTTGGGACTAG
Sequence 2305
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGAGATGATTAT
TCCCTCTTTTTTTAAAATTTGAAGTTTCCTTTGATTCCCCTTTTCTTTTACAAAATGGAG
TCATGACACGATCCCCGTGTCCCGTGTTGAGAACTGAAAGGTTTCTGTAGCTTTCCTTTG
ACATGAAATTTCAAAAATATACTACTCTGTTTCACTCTGGCCTGTAATTGTTGCACTCTG
GCCTTTAATTGTTGCAACTGATTAGACATTTTTCCTTCCAGCATTATGGTAGACTCGATG
CCC
Sequence 2306
AGGTACTTTTTCACTTTTTTTTTTTTTTTTTTTTGCATTTGAGCTAAGATTTTAACAATCC
TGTGAAAATAGGTAATATAGTCACGTATTTGTTGAATACATTATTTCAAAGAACCACAAA
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CTTTCTGCAAGACCTTTGGCTCACAGAACTGCAGGGTATGGTG
Sequence 2307
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GAACAGGGCTCCATGAAGGGGCTCAGAGGTAGGAGGGCTGTGATTAGGAGAAGGCTTGGA
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GCTTTTTTGTTTCCCTTT
Sequence 2308
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGATGCTGCCA
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TGAGTAAAGTATACTCCTGTGAACAAAATTTGGAACATATTTGNTTCTNTCTAACTGATT
TCTNCAGAATTTGGAACTAGTTCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTA
TGCAAAACATCAAGAGAAGATGAGAGGAGTCTATATGTCAGAATACACATTTCC
Sequence 2309
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TCCAATCCACATTCGCCTGGCTTGGGAATTTTTCTCAAAAA
Sequence 2310
AGGTACGCGGGAGAATTTGTTGCATTGAGTTATTAAAGTAGATTATACACATTTAGCATG
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GGGATAATTTCACGGTAAAATGGCAGCTTAACCCCAGTTTCAAACATTGAAACTTGAAAA
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CAGGAGTCAACCAACCTCAGAAACAACCAATCGTGGATTGAAAATACTTTGGGGGGGAAA

Table 1

AAATNNAANANAAAAANAAAAANNNNANGGTACCTGCCCGGGCGG
Sequence 2311
CCGGGCAGGTACGCGGGAGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCC
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ATCCTGCAGGAAAATGAGTCAAGGAAGCTTTTCTTTTGAGCTATTTACAGCTTTTAGCAA
TTGAGTAAAGTATACTCCTGTGAACAAAATTTGGAACATATTTGTTTCTCTCTAACTGAT
TTCTCCAGAATTTGGAACTAGTTAGTCTATATGTCAGAATACACATTTCCCACCTTGCCC
AACAGTAGAAAAACATAAGAAGAGAAAAACATTAAAAAATGACAAGGAAGTTAA
Sequence 2312
AGGTACGCGGGGCAGTGGGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCTCGGCGCTC
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GAACTAACCCACACAGGATCATTTCGCGAAGGAGCAAGGCTGAAGAACCAGACCTGGACT
TTCTTAGTGCTCATTCCTGGGCCCTCGATCACTGCATGTTTGTTACATGGTCCAGTTTGC
TGCTTCCTGGAAGAGCATCTCCTGACTGTGATGCCTTTGAGAATAAAGTCTTTCCGAAGC
CATTAATATTCAGAAGGAGCCACATGGACA
Sequence 2313
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAANGACTGACTGTGCT
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CAGGATATTCCAAGATGCTTGAAAATCAACATCCACATGATGAGATGACCTGGGTATCTT
GGGTTTCTTGTGTGACTGGCANAAATTCATATNTAGAATATAAGGGGGTTAATATTGGCA
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AAACATGGAGCTCAACACATCACTTATTCAGTCACAAA
Sequence 2314
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AGGACTTTTCAGTAAATATTCAGGTTCTGCACAGAGTTTGGCCTCTGTCCAG
Sequence 2315
ACTATAGGGCGAATTGGNNCTCCCCGCGGTGGCCGGCCGCCCGGGCAGCTACGCGGGATA
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Sequence 2316
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGTTCTTTTTTTTNT
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CAGTATGGCTAGCTTCTAGNGAGGGTCCTNTTGC
Sequence 2317
CCAGACGGAAGCTGACATTCGCTATTGATGTTCCAGCATTGATTGAGCTCCTGCCTCGTC

Table 1

TGCATCAAGCATGGTCCTCGCAGCTTCACGCAGTTAGAGTCCACATCACGTCTCTCTGAA
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TTTCTCACTAAAGCCTTGACTGG
Sequence 2318
GCGGCCCGAGGTACAATTGTGTCATATTCATGCACAACTTCATTTTAGTCTCTATTTGAC
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CACATAAAATTCGATCATAGAAGAGGATCTCTTTCCTGCCGTCCACATCTATCTGGAGCC
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Sequence 2319
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Sequence 2320
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CAACTCCTAATATGCAGAAGACTAGAAACACCGTAAATACATCTCTAGTAGGTAAACAGA
AGCCTCACAAAAAACACATNACAGCTGAAAACATGAAGAGCAGTTTG
Sequence 2321
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GGAAGTTAATGGAAGTCAGCAATGTGGTGGTGTTTGGAGGTGGAGCCTTCAGAAGGTAAT
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CCAAGAAGCCGGCTGTCTGCAACCTGCAAGAG
Sequence 2322
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GAGGATNTCTTTTGGCCAGCAAGTCC
Sequence 2323

Table 1

CNCTTAGGGCGAATTGGAGCTCCCCGNGGGGNCGNCCNGGGACNACCCTTGGNTTTCCA
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GGATAAAAGCTTCATTCTTTTTCAGTGCCCCATTGGCATCCAGAAAGTGGTCAGGATTGA
AGGCGTCTGGTTTTTCAAAGTAGTGTGGGTCACGGA
Sequence 2324
GGNGGCGGCCGCCCGGGCAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGGAAAA
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ATTTGGGCAAAGCACATTGAGTGTGCTTGTTTGGCTCTGAGTCTCTTTGCAAACATGTGT
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GTGGCCATGTCAAGCAATTCTTTCTTTCAACTGCAACTGTGT
Sequence 2325
GGCGGCCGCCCGGNCAGGTACNCGGGGTAATTGACATTGTGGACTTCCTGGGGTAGTCCT
GAGTAAAAAGCACTTAAGCACCTGTGGTACATCAAAGAGTCTCTTTGAGAGTTCTGCAAA
GATTCAAGTGTGTATACCTGAGTCTATATATCAAAAAGTAATGGAGATNAAATNGAAGAA
NGTANGAANGAGCCTNCTAAGAAGCCATCTGCCTTCAAGCCTGCCATTGAAATGCAAAAC
TCTTGTTCCAAATAAAGCCTTTGAATTGAAGAATGAACAAACATTGAGAGCANATCCGAT
GTTCCCNCCAGNAATCCAAACAAAAGGACTATTGAAGAAAATTCTTGGGATTCTGAGAGT
CTCTGTCGANGACTGTTTCACAGGAAGGGATGGTGTGTTTACCCAAGGCTACACATCAAA
AAGAAAAAAAAAAA
Sequence 2326
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CTGTGGTAGTCAATGGGCCAGGTGATAACCAGGTCTCTGGTGGTATGTCAAANGGGGGGC
CANANGNGCTTGGACTTGNGAACCATGTTACTGGAGGAGGTGAAANTACCTTTTCAGTGG
AAAGCCTCCATAGGCAGGAAGCTAGGGACACAAACTTTGCTAATGCTTTAGCCCCAAAGG
CTACAACCCAGCACAGCAGCAGTTATGAGCAGNGAAATTTACCCTTGAGGTACCTTGCCC
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Sequence 2327
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAATTGGAAACT
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AAAAACCAAACAGTGAAAATTAAGAACTCCAAATGTGTTAGTTATCTATTGCTGTGTAAC
ATACTGCTCAAACTTGACTTAACATNACCTTTNATTATCTCAAGTTTTTTGGTTGGGTCA
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AAGGCATTNGGTCGGGGGGTANGGGTCTCCTNTGGGAGGCTGAAGCTGGG
Sequence 2328
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACACACACACAGGC
ACACGCAGGCACACACGCAGACACACACACACATAAACACACAGAGTTCACTAGTCCGAG
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AACACAAGGGGTTATATTCAGTTAAGAGAATGGGGATCCCCGAAAGTAAACCCGNGGGAA
TTTTGGAATCCAAGTTTTCGAAAGAAGCTTAAAAAAAAGGAAAATTNGGGNGTTTTCAAC
CATTTCAACCCTTTCTTGGAATTCCCTTAAAGAAAAATACCAGGANGGTTTCAAAAATTN
NGGAAAAACCATTTTNCCGGGTTTTTTNNGGGGATTNCCCAAAAAGNTTTGGAAANNCAN
TTTTTGNGGNAATNAANGGCCCTTTANNTTTTTTTTTAAAA
Sequence 2329

Table 1

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCGAAAATAACGTCAATTTTCT
CAGGCTACTGAATTAGGTGACAGAATTTAAATTTAAATACAAAGTCACGTGGCTTTAGCA
CCCAAATTCTTAACTAAAGTTCTGTGCAGGATAAGACTTATGACACTGGGATTATTTGTG
CTCCCTTTATGCATCTGTGTTAACCCACACATATTACCAGCCCTGTAGTTAATAGGTTAA
TAAAGAATTAACTGCTGCATAAAATATTCAAGAGAGGAGGGGCTTACTCCACAACTGGAT
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GGCCTGGCTTCTTGGGGTGGGGCACACACCACATCCAGATTCCTTTAAGTGTGAAGACTG
CACCGTGGAGCCCAGAGAGAAGCCTGCAAG
Sequence 2330
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AAGTGGTGCACAGGGTTGGTCCCTATGGTGGAGGCCCCCTAACACCGCCCAACCCCCCTC
CATGTTCTCACAGCTCCACGCACTGAGCACGGGCATGAAGGCCATGATGTCANAAATTCT
GCACCCAGGGAGCTGAGATGTGCCGCAGGGCCTGTGGCGGACATGGCTACTCAAAGCTGA
GTGGCCTGCCATCACTGGTCACCAAATTGTCGGCCTCCTGTACCTGCCCGGGCGGCCGCT
CTAGAACTAGNTGGATCCCCCGGGCTGCAGGGAATTCGATATCAAAGCTTATCGATACCC
GTCGACCTCGAGGGGGGGGGCCCGGTACC
Sequence 2331
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CAAGC
Sequence 2332
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Sequence 2333
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CGGCTTCACTTACAACCACTCCCTGTGGCTTTTGCAGTGAAGCCTCTTAGCCCAAAACTC
TTCCACTCCCCA
Sequence 2334
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TGAGGAAAGAAAGGGGATCTGTGGCAAAAATATGCTATTGGATCCACAGTTCTAGTTTAA
GGACATGTCTAGTCCCTTTTCCAGCCCCCAGTTAATTACAATCCCCTGCTGCCCAAATGG
AGAGGGAGGTTGTTCACCAGTAGAGGGAGCCAGGGGCTGGGTGTCTCAATAGAAACTGAT
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Table 1

CCTTACAACCAATGGCTAAAATGTATGCCATTGTAGTAGATCACATTGTTAGTTTTCTTT

0

Sequence 2335
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GATGTGGTGTGAGAAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTT
CTCACAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGT
ACCTGCCCG
Sequence 2336
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GCTCTTACCAGGCTGGTCCTCTGGTCCAGTTATAGCTAGTATATCTGCTTCAATACTATC
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TGGAATAAAGCAGTGTTGTTGTTTTTGAGACAGGGTCTTGCTGTCTGTCACCTAGGCTGG
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CGAGTATCTAAGACTACCAGGTGCCGTGCCCGACGCTTGGCTAATTTTAGTACCTCGGCC
GCTCTAAAACTA
Sequence 2337
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TCCAGTTATAGCTAGTATATCTGCTTCAATACTATCATCTTCTGGTAAAGGTCTAGAAGA
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ACTGCAGCCTTAACTCCTGGGCTCAAGAGATCCTCCCGAGTATCTAAGACTACAGGTGCG
TGCCACGACGCTTGGCTAATTTTTAGTACCT
Sequence 2338
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CAGGAAAATGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAA
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GCTTGCGCACCTTCTTCCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTTCTGCAACCTGC
AAGAGGACCCTCACTAGAAGCTAGCCATACTGGCATCCTCATCTTGG
Sequence 2339
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ACAGGTGTTTATCTGCAGTTCTGACTTATCTCTTGAACTCCATTTGCATGTTATAGTGGG
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TTCCAGTGGCTGTGAGTGTTGGCTGTTGGTTGACAGAGGAGCTGCATCCTTCTGGAGGAA
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AGCCTGCAGTCAATGACTGATGAATATGACTTCATTGCCTCATGACAGGGA
Sequence 2340
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GAGAGCAAACTGGTTCATATCTTCAGATAGTGTCATTCAACCCCTTGGTAGCTTTCTGGG

Table 1

CTACTAAATATCACACCGTCTGGTGGGACATTTCACCCAAGTCGTGAAGGTCCGCAGCTT
CACTCCTGAGCCAGCGAGACCACGAACCCACCAGAAGGAAGAAACTCCGAACACATCCGA
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GAGGGTCCGCGG
Sequence 2341
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GGATTGTATTAAAACTACAGTGTGTGACTTAGAAAATGATAATGCTGCTTTATGGAAAAT
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TTTATTTTCACTTGATACTTGTGTTGTTCTTNCAATGAGATAAGAAGGCAGGCAAAGGAG
AAAAGTTCAGGGGCNGGGGATGAGAAGAAAACAANAATTNTATGTTGG
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AAAGAGGTCAGTTTTGTTAGAGGCCTGGATAGAGCAATATGTTGTAACCAAATCACACGT
GAACATTCTGTGGCTGAACATAAGAAATTGTGCATTATTAACGTTGTGCTTCAAGGTGGA
ATGCTGAAAGCACTTGGAAAGTAGTTGCCAGAGAAGAGCTCACTGAAAACATTATTAGCT
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Sequence 2343
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AGCTATTAAACTGAAAGCATCTGTAAAAAAAAAAAAATAAAAAAAAAAANGGTCCTGAGC
ACCCAAGTCAGCTGTGCACTGAGGATTATGAGGACTGCAGGCTGTAGTCATTCTTCCCCC
TGAGTCGTCAGCCTTGTCCCACACAGCAAGGTACCT
Sequence 2344
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CGGCAACCTCCTTTGCCAGGAACTATTTATAAACATCCTGCAGGAAAATGAGTCAAGGAA
GCTTTTCTTTTGAGCTATTTACAGCTTTTAGCAATTGAGTAAAGTATACTCCTGTGAACA
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GCTGAGACCAATGATGCTGACCTCCCTCAAAAGCTGCATTTCTGAATTTCTGAAGGCAAA
CTGTCTGCCTATATTGNACCTGCCCG
Sequence 2345
AGGTACGCGGGGGACAGGCCATCTCGCTATAGGAAAGGAAAGTGGAACAGCATTCATCCT
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CATAAAAGTGTAATCCTGGAAGATGTGGTGTGAGAAGCATCATCAGCATCATGCTATTAC
AATCCCAAACCATGGGGGTTTCTCACAGCTTTACACCAAAGGGCATCACTATCCCTCAAA
GAGAGAAACCTGGACACATGTACCTGCCCG
Sequence 2346
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GTTGCCTAGTTTCCTGGTATTAAGGAGAATCAACTCTCTGGATAAACGTGCCTTCTCCTG
CCACGGCATGCACCCACACATACGAGCCTCCCGGGTACCTGCCCG
Sequence 2347
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Table 1

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AAAACAAGAATTTTATGTTGGACATGCTAAAGTTAAACACCTGCTTAACTCAAATTGGCT
TCTGTGGAAGCAGAGGCTGCATGAGGTTGCTTATGAAAATGCTTTTTTGANGAAGCCATT
GCAGGAGGAATCTCTTANGAANCCAGGGAAGAAGGAAG
Sequence 2348
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GCCCATTTATGTCAATGGAAGAAAGAAAAAGGGGTCTCCTCCCATCCTCACCACTGCATT
CTCCCACCAACCCTGCTCCTGTCCCACTTCCCACAACTCAGTTGTTGACAATTTAACAGT
GGGTTTCTGGAAACAGTGCTGCCTCCTTGATGGTCTAACTAACTACCAGAGTTATTCTAA
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ACACAGTACCTGCCCGGGCGGC
Sequence 2349
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ATGATAATGCTGCTTTATGGAAAATGGATTATAGGTGGGTAAGACTTCATTGTAAAAATT
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AGCAGAGGCTGACATGAGGTTGCTTATGAAAATGCTTTTTTGAGGAAGCCATTGCAGGAG
GAATCTCTAAAGGAAGCCAGGGAAGAANGAAAGAGAAGGGAA
Sequence 2350
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CCTCGCAGCTTCACGCAGTTAGAGTCCACATCACGTCTCTCTGAAGAACAGTTAAAGTGT
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CATAACATGTCAGAAGCTCTTGTCACTGAAGCAGANAATATGAAATGCCTTCAA
Sequence 2351
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CAANAAGAGAAACTTCTAGAGAGAACAAAAGATCTCAGCCAAGAGTGAAAGATTCTTCCC
CAGGGAGAAAAATCCCAGGTCCCAGAGCAGAGAACGAGAAAGTGATAGAGATGGGCANAG
GAGAGAGAGAGAAAG
Sequence 2352
CCGGGCAGGTACCGCGGGGGCAGTGGGAAGCTCGCAGCAGCTGGGGAGGAGCCAAAGCCT

Table 1

CGGCGCTCACCTAAGCCGCAGGGAGATACACCCAACTGGGAGATGAGGAAACAGCAACCC
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TGGTATACACTGCCTATGTCTTTATTCCAATCCACATTCGCCTGGCTTGGGAATTTTTTT
CAAAAATATNTTGGATATNACAGTACCTTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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GTACCCAGCTTTTTGTTCCCTTTAG
Sequence 2353
CCGGGCAGGTACGCGGGGAACTTGTGTGCTTAGACCTGACGCTGGGAGGAGATGCTGCCA
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TCCTGCAGGAAAATGCAGTGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCAAAA
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TTTTTA
Sequence 2354
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CCTGCCCGnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnTAGNGAATTCGAATAT
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AAACCCCTTGTTCCGNATGGCCCCAAGGCCTTGGCCAATTTNAAATTGGAAAATTCCCGG
GCCCC
Sequence 2355
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TCGTGGACCTGTACGTGCCGCGGAAATTGCTCCGNTTAGCAAATTTCNCAATCATCGGGT
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GGTTGGGGAA
Sequence 2356
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Table 1

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Sequence 2357
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ATTCATATTCTTCCAGGAGGGGCACCAACGTTTTTTAAAATGATGTTGGCGACGAGGACG
GTAAATTTTCTAGATGACTGAAGGCTGACTTTCCCCTTTCTGTGACTCTCTAGGCAACAC
CGTGACAGGAGAGACGACTCCCTTTTCTCCTCTTGTGACCACTTCTGAATCTGTGACCCG
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TCCGGGTGGAATATGAGCTGAGTGAGGAGGGAGATGAACCACAGTACCTGCCCG
Sequence 2358
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GGATGTATAAAAACATAGACAGAGAGAAGAAGATNATTTTGCACCTCAGAAATAACCTTG
TGAACAGCTGAGTAGCCTGT
Sequence 2359
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GCNTGNAGGCCNGCCTCCCACCAACANAATTAACTTNNTNAGAGCAGCAAGTNCCCATAT
GGNAACACAGTCACCACTCCCAGGAATTAAGAATGTGGGACAGTNGGACATCTTTGGGGG
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CAGCACTTTTTNCCTCCTTTCCTCTCCTTTCATCCCATTTTTTTACATTCAGTNAGAAGA
TTGTCAGAACACCAATTAAAAAAAGAAAGCNAAGATTGGGGGCT
Sequence 2360
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TATAATTGGGCTGGTTTTATAACTTTTGTAATATTACCTTTTTCTGGCTGNGGTTTTATA
CTTATCCCATATGCNTGGATGGGGAAAAAATTT
Sequence 2361
ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT
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GCTAATTTGCATGACTCCGTTTAACACTTGATTTTTTT

Table 1

Sequence 2362
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ATTTCCCACCTTGCCCAACAGTNGAAAAACATANGAAGAGAAAAACATTAAAAAATGACA
AGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTTTGGAGGTGGAGCCTTCAGAAGGTAA
TTAATGCCCTTGTAAGAAGAGGCCANAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGA
GCCAAG
Sequence 2363
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CACAGAGTTCACTAGTCCGAGTTACTGATTTTCTTAGGATTCTCAAAGTGACAACACCGG
AAACAAGGTAATTCATGTTAAAACACAAGGGTTATATCAGTAAAGAAGATGGGATCCCCG
AAGTAAACCGTGGAATTTGAATCAAGCTTCGAAGAGCTAAAAAAAGAAATTGGAGTTTCA
ACATTCACCTTCTTGAATCCTTAAGAAATACAGAAGTTCAAAATAGAAAACATTACAGTT
TCAGGATACAAAAGTAGAAACATCTGAGATTAAGCCTACATTTTTAAAAAAAGATATTGA
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GATC
Sequence 2364
GGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCCGAGGTACCGCGGGGGCCGCCGTGTG
CCATTTCCTCTCTCCAGAGGACCTTTCCTGCCTAGGACTCATGATTGTCCCCTCCCTGCT
GTTGCCTAGTTTCCTGGTATTAAGGAGAATCAACTCTCTGGATAAACGTGCCTTCTCCTG
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Sequence 2365
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TATTATGAAAAAATAAAGTTGTAATTTCTGATGACTCTAAGTCCCTTTCTTTGGTTAATA
ATAAAATGCCTTTGTATATATTGGATGTTGGAAGAGTTCAAATTATTTGATGTCCGCCAA
CAAAATTCTCAGAGGGCAAAAATCTGGAAGACTTTTGGAAACACACTCTGATCAACTCTT
CTCTGCCGACAGTCATTTTGCTTGAATTTCAGCCAAAAATATTATGGCATTTTGGATGCT
TTATTCAAGGGCTATTACCTCAAACTTTTTTCTTCTCAGAAATCCCAGGGATTTTCACAA
GGGATACCTTGTTATATATGGGGAAAACAAGCAAGGTTTAT
Sequence 2366
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACTTTACTCA
CCCTTCCTCTGACAGAAAAGGATGAAGTCAAGGGCCTGGTAGAGGCACCACTAAGAAAGG
CATCTGAAAGGACCAAAGAGAGTGACCAGCAAGCATTTTTTGCAAGGCTGAGGAGCTGAC
AGCTTCCATGAAAGGCTGGACCACCCAGTGGTTGAAAAGCATCATCTGGGTTACCTTGTG
CTGCCATAAAACACACCACAGACTTGGTGACTTAAACCACAGATATTTATCTTCTCACAA
TCCTGGAGGCTGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCT
CTTTCCTTCTCACTGTGTGCTCTTTCTTGTGCATGGGAGAGAGAAGAGAGCCATTGAACC
AAGNCCCTCTTACTGTCCCTCTTAAGAAGGGGCACTAAAT
Sequence 2367
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGGGAGGAGTTA
GGGCTTAGGAAGAAGGAAATGCACAACTTGGGACCTGAGTTAGGCCTTCATCGTCGCGGA
CTCAGTAGACAGAGGCCATAGGTGCAGCTGTGATGGTAGAGGTGGAAGACTGATTTGCAT
TTTCACCAGGTGAGACCTGGTTACTCAATTGGTTGGATGAGGGAAAGAGATGATAGCCAG
GGGCGGCATAAAACGGCAATGAGCTCAGTAAACAACCCCCTTCCCGTGATCTTCGTGGCT
TCCCGCCCAGACNTGTGACCAATATAGCAAGGAGCAGTCTTTAAGGCGACACCGGCAGAG
AGGCAGAAAAAGATGGCCCTTACNCGGTTAGTTAAGAAAAAAAGAGGACCTGTTGCCT
GTCCCTCTAGCTTTGAACCTACAAAGTGGGAGGGGG

Table 1

Sequence 2368
TAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACACGTCCCTAGAA
GCACATAGCTCCAGCAACAAAGCTAATCTGAGAGTAATACCCAAGATGCCTCCTACCTTG
CAAATTTCAAGGAATTTCTCACTGGTGTATTTCATAGGATGCTCAGTGAAAGTAGCATAA
GGAACTTCAGTGGACCATGGGGTTCCAGCGGGGACAGAAGAGACTGCTCCTCCGGACTCC
CCCAGTAGATCCTAAGGCCTTCTCCTTGTCTCTTGTCCAGGGACATCCCAGGGAAGGTGA
ACTTGCCCAGGCAGATGCGATAGACAGCGCTCAGAGGAATCCGCTGCAGCTGCACACAAC
TCAGCATGATGGAAGTCGTATTTGCAGGATCAAGGAGAGTCTTGTCTGTGGACCAGTAAG
NAAATTCTCTCCTTCTCATTG
Sequence 2369
GACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAGACGGGGCTGT
AATCTGGTAACTGTATGTATTTTAGTTCTTCAGTCCCTGGGAAGGAGACAGGAGAAGGTG
GGAGGGAGGAAGGGGCCAGCTGAAATGGAAACAGATCCCTGATCCGGGGCGGTCAGTGGA
ACCCTTCTTGGTGTGCGAGAGCCTGTGCATTTCAAGAGGCAGCAAAAAAGTAAAAAAAAA
AAAAAAAATTGATCTTTGTTTAGATTAACAGGACCCCTGACTATGAANAAGGAAGGCATC
CAGACCAGAAACCGAAAAAATGTCTAGCCAAATCCAAAAAGTGCAAAAAAAGTTGCATTG
ACTCACTGGAGGGACTTTCCCCAAGAAACAGCTNGTTTNAACCCGGCCCGCTCTTANAAC
TAGTTGGGATCCCCCGGGCTGG
Sequence 2370
CCGCGGTGGCGGCCGAGGTACCATTTAATCCTCACCCCTGACTGTCAGTAGACTGCCATG
GAAACCCCAAGGATGCCTGTCCTGTTGGACATGTGGTCAGAGACTGGCTCCAAAGATATC
TCCCAAAGAGCAAAAGCCACCATCTTCCTGTTGGTGCCCAGACACAGGTGCATGAGCTCC
AAGGACTCCTTCCTAGGCCACCTCTNTGCTGCCTGATCTAAACTCACCTCATTTCTGGGA
GCTGGTCTGAGAGTCTGCCTTGGAGATGTGTTGGATGGGAACTAGGGGTTTGTAGGCTCC
ATTGTGAGCAATACTGATGGGAAAATGACCCCAACTGGTATGGATATTTTTTGCANTAAA
AGCCCCCTGNAAATNCTGGACATGCTCAGGGGTCAAGAGCCATTGAA
Sequence 2371
TTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATCAACCAACAAGT
CATTATTACCCTCACTGTCAACCCAACACAGGCATGCTCATAAGGAAAGGTTAAAAAAAA
GTAAAAGGAACTCGGCAAATCTTACCCCGCCTGTTTACCAAAAACATCACCTCTAGCATC
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Sequence 2372
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CACCCCAAAGAAGACATTAAGGATACACTTGTCGTTCTTAAGTGTGTTTCACTAAAAATA
ATAACAAAAAACTTTTAATTTTTAAAAATGGTTCTAGCTTTTAAAAACCTGCAGTAAATA
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CTCCTACTCTTTCTCTCTCTCTTTCTTGTTTTCTTTAAACCAACTGACGTAATGCCAAAC
TTTGCTTTAAAAGAACAGACAGGAAGTAATTGGTAGCTTTTAACTTTTAATAATGTTCTG
GGATTGGGTTTTAGTGGCCAAAATGCCATTTAAAAAAAAAAAAAAGTT
Sequence 2373
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ATTTCTTCAAGCTTGTTAGTTTGGGATTGTATTAAAACTACAGTGTGTGACTTAGAAAAT
GATAATGCTGCTTTATGGAAAATGGATTATAGGTGGGTAAGACTTCATTGCCAAAAAATT
GTGTAATACCATCAGTGTTAGGAACCCAGTTGAAGTCTAGAAGACAGATGATAGTATCTT

Table 1

AGACTAGGTTGGTATTTGAATAGATATTGGTAATATCAGTAGAATCTTAATAATACATTA
GAAAGAAAGAAATCAGAGAAGATTCTTTTATTTTCACTTGATACTTGTGTTGTTACTTTC
AATGAGATAAGAAAGACAGGCCAAAGGAGGAACGTTCAGGGGCAGGGGATGAGGAAGAAA
ACAAGGA
Sequence 2374
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CACAAAAGAGATGTGTTCAAAGACACATTTTCTGAAAACACAAAANCTNACAAATTCAAT
CCTCCCTGGAGNGGCAAGTTTTTCNGGCCTGGGGNAACCTTGGCAATTTCNAAAACTTNT
NANGAAACCCCATAACCTTGGTTTNAAAAACCAAAAAACCTTGGAAGGAACCAAATAATA
TTTGNGNGGAANATTAACCAAANCCAANAATTGGTTGGGGGGGCCCAATTTTGGAACCNT
TTTGNGTTCNCCCCCCTTGGGAAGNCCCCCCAAAAAANAGGGCCTTTTTCAANANTTTTA
ANCCCCCCCAATTTTGGGCCTTCNTTCCNGGTTTCCCCCCCCAAGGGGGTTTNGNAATTC
CAAGGNCCTTTTGGTAAAANAATTTTTCNAAGGNCCTTAAAACCCCGGAAGGNCAANGCC
TTAACCNGGGGTTCTCCCCCTTNNATTTCCCCCCCCNAAACCGGAAGGGGGATTGGTTGG
AAGGAAAAAAGGGTTTNCAATTGGGTCCTTNCAATTGGGTTTAATTCCNTGGGGGAACCC
CTTTGGGAA
Sequence 2375
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CAGTAGAATTGCTTTGGATTGTAAATATGTTTACTTCAGAGGAAATCAGTCAGAGTGGAT
GGCTCAGCAAAACCCATCACAACTGCGGAAAAAAGGAAGTGACTGGCTAGAGGTAAGGAA
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TAGCACCAACACTGTGAAGAACAGCTGTGGCAGAGAAAGTGCCACGGCCCCACCCCATCA
CCAGATTCAGTAGAAAGGCCCTTGGAATTTCCTACAAGGGTTCAGTTCTGAACAGCTCCA
CTTCAAATCAGTATAGAATCCTCACAGTGACTCTGTGAGGGGAGG
Sequence 2376
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CATTGGAAAGTGGGCATGCTGGGCACAGTTCATCCATTGTGGTCAAGAAGCATGTCACTG
GGAGAGTACCT
Sequence 2376
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TCTCTTTGAGGGATACGTGATGCCCTTTGGTGTAAAGCTGTGAGAAACCCCCATGGTTTG
GGATTGTAATAGCATGATGCTGATGATGCTGGAAGAGGCATCAAAACTCAGTTACTTCCC
AAGGTTTGACTTACAGACATAAACTTCCCAGGGACCATACTTTGTAGGAACTTAAGAAGG
TATTTGCCATTATTCCAAGGCTGGTTGTCCTTCANAAACAAAACATGGGGATCAGTGGAG
CATTGGAAAGTGGGCATGCTGGGCACAGTTCATCCATTGTGGTCAAGAAGCATGTCACTG
GGAGAGTACCT
Sequence 2378
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTCATCTCTCTGACCTCATTCGCATGGCATTC
ATGGCTGCAACTGATCATAGCAACCAGCTGCGAATGGCTGGGCTCCAGGCGCTTGAAGAC
ATTATCAAGAAGTTTGCGTCTGTGCCTGAGCCAGAATTTCCAGGTCATGCGATACTGGAG
CAGTATCAGGCTAATGTGGGAGCTGCTCTAAGACCAGCCTTTTCACAAGATACACCATCA
GATATAATAGCGAAAGCTTGCCAGGTATGTAGTACCT
Sequence 2378

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTCATCTCTCTGACCTCATTCGCATGGCATTC
ATGGCTGCAACTGATCATAGCAACCAGCTGCGAATGGCTGGGCTCCAGGCGCTTGAAGAC
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CAGTATCAGGCTAATGTGGGAGCTGCTCTAAGACCAGCCTTTTCACAAGATACACCATCA
GATATAATAGCGAAAGCTTGCCAGGTATGTAGTACCT
Sequence 2379
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGCCTGGCTACCTGTGGGTTG
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TGCTAATCATCACCTATCTTTACTGGCAGATCACAGAGGGAAGGAAGATTATGATAAGGC
TGCTCCATGAGCAGATCATTAATGAGGGCAAAGATAAAATGTTCCTGATAGAAAAATTGA
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CTAGAANATCAGTTCAAGAAGGTAATCCAAGGGCCTGATGACTCTTTTGGTAACCAGACA
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TAAGAACTGCCCANAAANAAA
Sequence 2380
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AATGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAG
AAGAGAAAAACATTAAAAAATGACAAGGAAGTTAATGGAAGTCAGCAATGTGATGGTGTT
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AAACCCATGTTCAAATAAGAGATAAGATACTGAAACACATAACACCTTTCGCTAGTTTTT
AGTATACAAATATTG
Sequence 2381
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TGTTACACNAAGAGGTAGATCGGNTAGTCCCAAAAAGCCAGCCAGTCACATTCAGAGGGA
ACATTTGGATAAGATTNCTAGTCCTNTNAAAAATAACCCCAAA
Sequence 2382
GGGCGAATTGGAGCTCCCCGCGGNNGCGGCCGATGGCCTCTTCTAGGCAGATCCGTCTAC
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CTTGCGCAAGATGGGAGCGCCCGAATCTGGCTTGGCGGAATATCTCTTTGACAAGCACAC
CCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCCATAGCCCGTGGGG
TGACTTCCCTGGTCACCAAGGCAGTGCATGCATGTTGGGGTTTNCTTTACCTTTTTCTAT
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Table 1

TATTCAAGCTTATTCGATTCCGGTCNACCTTCGANGGG
Sequence 2383
CCGGGCAGGTACGCGGGGGGGGGGGGATTCTTGATCCATGCACAGCGATGTGAGCTGAGG
TGCAGGCACCAGACCTAGGAATTCCTAGAAAAATAGTCAGGAAGCATTTAGACACATCAA
ATGTTAAACGAGTCCTGATTATGATGATAATGATGATGATTTTGGTGGTTGCAATAGCAA
AGCCTTAAGTATGAAGGAGACGTGCCAGCTGGAAATACAGGTAGACAATGAACAACTGAA
TTTAGAGGACGAAGACATTGAAAGCATTGATGCCACCAAATTGAGCCGTTTCATTGAGAT
CAACAGCCTCCACATGGTGACAGAGTACCT
Sequence 2384
CCGCGGTGGCGGCCGCCCGGGCAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGG
AAAACTTAAACCCATGCACAAATAATTGGTGAGCCTTCATTTCCCTGACTTCAAGTTTCC
ATGTGAGGACTCATGCTCTCTCCACTTTCTTCTTGGGAGGAGGGAAGATTTACCTAATGG
GTAAATTTGGGCAAAGCACATTGAGTGTGCTTGTTTGGCTCTGAGTCTCTTTGCAAACAT
GTGTCTGCCCACAGTGACATGAGTTTGCGTTGACTGTCATGCCTGCAGGAAGCTGCCTGC
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TGAGAAGAAATGTTCAGAAGCTCACTGTGGCTGCACATCTGAGCCATGTCTTCCCATTAG
TTGTCATGAGTCAGCAATAAAGCGGGTATGTTGATGTCTATCAATCTAAT
Sequence 2385
CCGCGGTGGCGGCCGCCCGGGCAGGTACACACAAAGACAAACCTGAACTTAATTTCAAGG
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TTGTCATGAGTCANCAATAAAGCGGGTATGTTGATGTCTATCAATCTAATTCCTATGTTC
TGAACTCAGG
Sequence 2386
CGCCCGGGCAGGTACCCGGGAGGCTCGCATGTGTGGGTGCATGCCGTGGCAGGAGAAGGC
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GACAATGATGAGTCCTAGGCAGGAAAGGTCCTCTGGAGAGAGGAAATGGCACACGCGCAA
GCACGGAGGCATGAGGGGCCAGGGTCCTGGAGGACACTGGGCCGGGACAGATCAGACTCC
CCCCGCGTACCT
Sequence 2387
AGGTACGCGGGTTTCCTCAACATGGCTGCGCCCTTGTCAGTGGAGGTGGAGTTCGGGTGA
GTCACAGAGCTGGGGCGCCGTGGGGATGGATTGAAGTCGTCGGGCCCAGAATTCCTTTCT
TTGCCGTGGGGCCTGACA
Sequence 2388
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCNCGCCCGGGCAGGTACGCGGGGGGGGGG
GGATTCTTGATCCATGCACAGCGATGTGAGCTGAGGTGCAGGCACCAGACCTAGGAATTC
CTAGAAAAATAGTCAGGAAGCATTTAGACACATCAAATGTTAAACGAGTCCTGATTATGA
TGATAATGATGATGATTTTGGTGGTTGCAATAGCAAANCCTTAAGTATGAAGGAGACGTG
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GTACCT
Sequence 2389
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTGGGGAGAAGATCATGCATTTCCTAGGACAGGACTAATACATTTAGCTGTGGCTATT
ATCAAAGAGCACCAANACCTTAGGTGGGGCAACCAGACTGGCTATGGGGCTCGATGTAAG

Table 1

CCAGACCCATGACCCATAAACTATTTCAGGTAGGAAGTAAGCAATACTATAACTTGGACT
CGAGGGGGAGCAAAAGGGCACCCCTCAATGGTGATGGCTGCCCACTTGGTCTCAACACTG
TAAAACTTGGGACTTGCT
Sequence 2390
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TTCTCTTTATGACTATTTCCTTCTTTATCCTAAATTGTCAAAAATCATCAAGGGGCATTC
TGATACANAAGCACTCTGATACANAAACACNCANTTAACATGAAAATTAACGGTTAACAA
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AATATGCATATAAGACTATGCATTTTAATTTTCATGAATACTGACCTTCTGTAAATGCAA
ATACCCATTTTCTACATTACAATATTACCCAAGGGGGAA
Sequence 2391
CGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGATGCTATTACTGAATAACTCTTTCTGA
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CATAAATTTGAATGTTTTGCTGTGTAAGTCATTCAAAGTTGAAGACAATGTCCCATCTTT
TGACAGAAAGGGAAGGAAGGATATGTGCTCAGCCTGCCAGTTTGACCCACTTTTGAAAAG
GGCTTTGTGGTCTCTACCAATGAGAAGTCTGGTGTCAATGTGATTTTCTTAACTTTATAG
GAATTGTTTGTTTCCCTCTTTTCTGAAAACTTGNGCTTTCATCAGGCTCTACCAGCCTTG
ATACTCTGTCACTCACTGGGCATGGTACCTGCCCG
Sequence 2392
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTACTCAC
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ATCTGAAAGGACCAAAGAGAGTGACCAGCAAGCATTTTTTGCAAGGCTGAGGAGCTGACA
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CTGGAGGCTGGAAGTCTGCAATCACGGTGCCAGCATGGTCAGGTTCTGGTGAGGGCCTCT
TTCCTTCTCACTGTGTGCTCTTTCTTGTGCATGGAGAGAGAGAGCATGAACAAGCCCTCT
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GCTAACCCTAGTTAAGTACCTCGGCCCGCTCTAANAACTAAGTGGATCCCCCGGGCTTGC
AANGAATTTCGATATCAAAGCTTATCGATACCCGTCNA
Sequence 2393
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGAACAGGCGATATCTTCACCATGCG
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AATGAACAACTTGGGTGAAATGTCCCACCAGACGGTGTGATATTTAGTAGCCCAGAAAGC
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GGTCATGAGGGTGGAGCCCTCATGAATGGGATTAGTGCCCTTATAAAAAGAGGCATCAGA
GAGATCGTTTGCTCCTTCTGCCATGTGAAGACACANCAATGGATGACTATCANGGTATTA
AAGAAAGAACA
Sequence 2394
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GTAGCAGTTTCTAGAGCTGTTTTCAAGGAATGGAAAGAGGAGTGGGGAAAGGATTTAGGA
TCTATGGGGTTGGCTAGGTTTCCCTTTCTGAGTTTATATAATGGTTTCGAGAATAAATGT
TGAAGGAGCANGAGGGTGTCTTGTTGAGAAGATTTAAAGGAGGGGCTACAAAGTAGAAGG

Table 1

TCATCAATATATTGAATAACGTGAGAAGCACAGGGGTGGAAAGAAAGTAAATCATGAGAA
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TCTAANAACTAnnnnnnnnnnnnnnnnnnnnnnnnnTCGATATCAAACTTATCCATACC
CGTCNACCTCGANGGGGGGCCCCGGTACCCACTTTTTGT
Sequence 2395
CCGCGGTGGCGGCCCGCCCGGGCAGGTACTGTGATATCCACATATTTTTGAGAAAAATTC
CCAAGCCAGGCGAATGTGGATTGGAATAAAGACATAGGCAGTGTATACCACCATAGCAAT
AATGGTTAATAAGATGGCGTTAAACATAGATCGCTCCCAGGGCTCTAAAACAGCACAGCA
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TTTCCTCATCTCCCAGTTGGGTGTATCTCCCTGCGGCTTAGGTGAGCGCCGAGGCTTTGG
CTCCTCCCCAGCTGCTGCGAGCTTCCCACTGCCCCGCGTACCT
Sequence 2396
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ACATTGAGCTATCCTTTTATNTACTTTAAAAA
Sequence 2397
CCGGGGNTTGGGGCCGGGGTCNCGGGGGGAAGGCCAACCCCCCAAAAGGGGGGTTGGCCC
GAAGGGGGGCCACCCAAAGNTNNCTTTGGNTGGGGGGCCGGCCNTGGTTGGTTGGGGNCA
ACCCCAANTTTNCAACCNAGGNCAAAAGGGTTCCCAAATTCCTTNTGGGGGGGTNCATTG
GTTAAGGNTGGGCCAAAGNCCAAAGGGGAAAGNCCGGNGGCCCGGCCCCCTTTTNCCTTN
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ACCCTTTTGNAAAGGTTGGGTTGGGTTGGGGGGTTCCCCCTTTTGGGCCTCCCAAAGNGG
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TTCCCGGNAATTTAACCCCCCGGTTTTCTGGAAACCCCCCTTTCTNGNAAAGNGGGGGGG
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GGCCCGGNCCCGGNCCTTTTTGNGGGGCCCGGGT
Sequence 2398
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CCCAGGGAGGTGTAAGGAACAGGCCACATCTGGTTCTTGGAAGTATATGCCCAGGCATTT
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TTAAGCTTGTGTTGCTTGGAAATTCTGGGACT
Sequence 2399
AGCGGCCGCCCGGGCAGGTACGCGGGGGTTGGAGACCATTGCTCTATAGCAAGACCAGAC
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ATGACCTTTTCCCACATAATGAATAGCCATTGGGAGACACACTTCTGAACACCACCACTG

Table 1

GAAAATCACACATGCTGAAATGGGAGAGTTCCCTGACCCCCTTGCAGGATATGTGACAGG
AGTGTGGCTCATCTGTTCAGCTGGAGTGCATACTCAAACCCCTTATGAGACAAGGAGTAT
GCAGACAGGAAGGTGCAGGGAACTGGGGAAGCAAAATATAAACTAGTTAA
Sequence 2400
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GCCCAGCCAATCCTCAGTTATTTTCTAATACTAGATAATCTAATTGCTCACTTATTACAT
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CAGGTGGATTTTTAAATNATATTTTCAATC
Sequence 2401
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CCCCGGGGTTTACCCCCCAAANCCTTTTTTTTG
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CNTTTTGGTTGGNATTAATTCCAAGGNAGGGGGTTTAAAACCTTTATTTGTCCAAAAAAA
GGCCCAATTTTCNCAAAGGGGCCCGGG
Sequence 2403
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CAATGTGAATTAATTGGGTAATAACTTTAGTGTCACCATGTTTAAGGAACTNTTTAGTTT
A
Sequence 2404
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CAGAGAGCTTGCGCACCTTCTTCCTGCCATGTGAGGAGCCAAGAAGCCGGCCTGTCTGGC
AACCTGGNAAAGAGGACCCTTTACTTAGNAAGCTAGC
Sequence 2405
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Table 1

TGTGTATGTTTGAAATTTTCCATTATAAAAAGGACAAAAAAAAAAGAGAGAGAAAACTAA
AAAAGAAAAAATAGTGTTGCGCTTGTTAGTAAAACCAATCTTAAGGCCAGTTACTAAAAA
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TTTAAGGTCAGTGGCCCATATGTCTTCCTGTTCTCC
Sequence 2406
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Sequence 2407
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Sequence 2408
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Sequence 2409
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Sequence 2410
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Table 1

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GGCCCAAANCCCCTTTGGNCCNTAANGGAAGGGGGGACCCCCC
Sequence 2411
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GTGCTCTT
Sequence 2412
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Sequence 2413
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Table 1

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Sequence 2417
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GGGGACAAATGGAGGAGAGATNTTAACTAGAACATTGCTGACTCAAGGCCGTCCAGCTTC
AGNGGGAGTTCTGATTAGGCCCCATGTNTGCCTGATGCCACCTGCAAC
Sequence 2418
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Sequence 2419
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Sequence 2420
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Sequence 2421
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Table 1

TTTGGGGTCCCGGTTTTNTTTTTTTTCCCCAAATTAAAAGANGGGCCNTTTCTCCCGGTC
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Sequence 2422
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Sequence 2423
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Sequence 2425
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Sequence 2426
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Table 1

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Sequence 2427
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Sequence 2428
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Sequence 2429
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Sequence 2430
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Sequence 2431
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Table 1

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GGAAATTTTT
Sequence 2432
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CATACACTTCAGCTATTNGCTCTGNGTTCATAATTAGATTGNCTAGACAGGANATGTTGC
TGGAGCAATAGG
Sequence 2433
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AAATTTCCAATGCTTTGCAAAGTAGTTGAACAACTTTTTCTTTGTGATGCTAGGTGGCAC
TACTAGTCAAGACTTGGTATTTCATAGCTGGCTTTCTTATTCTGAAGGTTGTAAAAAGAC
ATATGAAGTAATATTTAACATTGAAAACATGATAATCAATTTGATTATCTATGAATTGTC
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AAGTCACATGTAAACACCAAAATAAGAGGAATAGAGCAATAGGATATTTTTGGCTTTATA
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TCCAGTAAGCAGTTGCTATCTATGATTCATGAAGATCATGGGGGGTTCCC
Sequence 2434
CGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGATGCTATTACTGAATAACTCTTTC
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TTCCATAAATTTGAATGTTTTGCTGTGTAAGTCATTCAAAGTTGAAGACAATGTCCCATC
TTTTGACAGAAAGGGAAGGAAGGATATGTGCTCAGCCTGCCAGTTTGACCCACTTTTGAA
AAGGGCTTTGTGGTCTCTACCAATGAGAAGTCTGGTGTCAATGTGATTTTCTTAACTTTA
TAGGAATTGTTTGTTTCCCTCTTTTCTGAAAACTTGTGCTTTCATCAGGCTCTACCAGCC
TTGATACTCTGTCACTCACTGGGCATGGNATTTGCACCATCCTTTCAT
Sequence 2435
CGCGGTGGCGGCCGAGGTACTAGACGGGGCTGTAATCTGGTAACTGTATGTATTTTAGTT
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CCGGCCG
Sequence 2436
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CAGGAAGTGATATGTATAAAACTATTAATTCATCAGATTATATATAAGGAGATAGGGTGC
ACTTAAAATTGCTAGGAAGTTGAGATCTCTAGTTGTTTAAGTTGGAAGTAATTGAAGTAA
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Table 1

Sequence 2437
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCATCCCCAAGGACA
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ACGCCTTCAATCCTGACCACTTTCTGGATGCCAATGGGGCACTGAAAAAGAATGAAGCTT
TTATCCCCTTCTCCTTAGGTAAGCTGGACCCACAGTTTCTTTCCCAGACACCAGAGGGCA
GGTCCTATCCTCAACTTGAGAAAAAAAATGACAGGTCCTTATTAATTGAGCACTTAATAT
ATTCCAATTGCTTCACCTGCCTTATCCCCTTCCATCTTCACTACAACCCTGTAAGGAGGC
TTGAGAAAGAAGATTACATTCCCAAAGGCACATCTGGGCAAGCAGGAACTTGGGCAAGTA
TTTTAACATCTCTAAACCTCAGTGAATTCATTTTCTTAAAAAGAAAAAAATCTGTTGAGC
ACCGNTGTAAGCCCAGTGCTGTACCTCGGCCGCTCTAGAACTAAGTGGATCCCC
Sequence 2438
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CTGAAATGAAAATCAGTCTGAGATAATGAACACTCCTGCTCAGAGATCATTATGGGCTGA
GCTGTGCTGGGAAGGCACTGAGCCTTGGGGGGCTAACACTTGCCTCAGTGGAGTTAGCAC
TCAGTAACCAGGCAATCACCTCGATCCAAGGCTTTCAACTCTCGTGGAATATCTGTCAGT
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GGCAAAGACCACTGGGTAGTTGGTGAGAAGCTTATNAAAACAGCTTGCTTTCTCCTGAGG
GGGGAAGGCTAACNTCCATGGGGGTATGGGAC
Sequence 2439
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CAGAATACACATTTCCACCTTGCCCAACAGTAGAAAAACATAAGAAGAGAAAAACATTAA
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GCCCAAGGAATGAAAAGAATNAAAAAAAAATTTTT
Sequence 2440
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Table 1

NGGGGACAAAACCAAGACCCCTTGTNTTAAAAGAAAAAAAGAAAAAAAGCC
Sequence 2441
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AGAGATGGGCTCTGGGTTCTACCTTTGCTCACTGGTAAGTTGCTAAGATTTCAGCCTTGC
CCTCAAACCCTGAAGTAGTCCTTCATTCACACAGTGGGATCACTCGAAAATGTCAGATGG
GGAAGTCCATAGGTTGTTACTTTAAAGAAAATAGAAAAAATGCTGGAAAAGGTTTCTTCA
ATTTTAATACCCATGAAGGCCCATGTTTTAGCTTTCCTCCGATGGGCAAACCATACACTA
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TATTTTGTGTTGGAAGAAGAGTTGGAAAAGAGGCAGTGTGGAGGTGAGGGGAGAAAGTNC
CTNCCTCNAT
Sequence 2442
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TGAAGTAGAAGAGACAGGGATATCCCAGAAGGTTATGCAAAACATCAAGAGAAGATGAGA
GGAGTCTATATGTCAGAATACACATTTCCCACCTTGCCCAACAGTAGAAAAACATAAGAA
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ACCTTCTTCCTGCCATGTGAGGAGCCAAGAAGCCGGCTGTCTGCAACCTGCAAGAGGACC
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GCCAAAGACAGTGCCTCATTTACTACATACCATTTATATTATTATAT
Sequence 2443
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GAGACAAGTCATTAAGGTGGTCCTGCCAGGACACAGCCATCTAAAGCAGCAATCTGCTTC
TTGCCAGAAAATCTCGTGCCTCTGCAGAGCCTTTTCCAGAATGAACCACACCATGCTGAG
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TCTGGCCAGAACACCCACAAGCTTTCCTTAACTCAGTGTGCTATCTCCCCACGACTAGGT
CACTACTGCTTTATAATCACCTTTGTAGCCACCAGTGGATTT
Sequence 2444
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TACCTGGACACGAGTTGACTTTCTGTGAGACATCATTCTGGAATGAAAGCCAAAATCTCT
CTGCTATTCAGTTGAGGCTGAAAAAACAATCACATCAGAATTAGTAAGGCCCATNACAAN
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CAAGCTTGTAATCCCAGCACTTTGGAACGCCAAGGCAGGTGGATCACGAGCTCAAGAGAT
TGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAACACAAAAATTAGCC
CGGG
Sequence 2445
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TGGAGGTGGAGTTCGGGTGAGTCACAGAGCTGGGGCGCCGTGGGGATGGAT
Sequence 2446
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAACAAAACTAAAAATAAA

Table 1

AAGTCAAAAATTGGAGATGAAATGTATGTTTTGAAACACATTATTTTGGATCTTAAAAGA
TTTCCATGATATTTTTTGAAGGTGTAATATTAAAATGATGTCTCTTTTTTCTGTCTCATT
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TACCTGCCCG
Sequence 2447
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CTATCCCTCCCTTACCCATTCAAAATCAAATTGGCACACCCAAATGGGTACCTGGAATCT
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NTTTTTAANGNCCNTTTNCTTTGNTTGGGGNCNCCAAATTTGTTTCTTTGGGGTAAGGGG
NAAANCCTTTGTAANGGGNANTTGGGGGAATTTTTT
Sequence 2448
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GCGGAAAGAACAGACCCGGAATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAAGCCAATTT
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GAAAGAAAAAAAATGACCNAGCTTTTCNAAAAAAAGCNATGGAAANGGAAAAA
Sequence 2449
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NAACTA
Sequence 2450
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CTCAAAGAGAGAAACCT
Sequence 2451
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Sequence 2452
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Table 1

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AAGCAAACCCCCNCGCTATAACTGATAGGAATTTCATTGGCTTNGGTGATGGTCATTTCT
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Sequence 2453
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Sequence 2454
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TTGCTTTTGATTTTA
Sequence 2455
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GATCCTCACCCTGTGTAAGCTTAGGCTACTGTGTGTATTTGTGTCTTAGTTTTTAACAAA
AAGGTTTAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG
Sequence 2456
TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGACACCCTAGATCC
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CGCTTTTGCCCAAGATCGGGGAACCCCTTTGCCATTGAAGCATCATCCAGCTTAAAAAGG
AAA
Sequence 2457
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TAAAAATATTCAAGATCAGGTTAACTCTGACCTGGAGGTGGCATCTGTCCTATTTAAAGC
TGAATGCAATATCCATACATCTCCTTCTCCGGGAATTCAAGTAAGGCATGTCTACACCCC
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Table 1

Sequence 2458
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ATCATGCTATTACAATCCCAAACCATGGGGGTTTCTCACAGCTTTACACCAAAGGGCATC
ACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCTGCCCG
Sequence 2459
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ANTGGTAANNTNAAACCAAAANTNTGGAANTAAAAAAANTTNAAAAAAAATTAAAANTTG
NGAATTGAAAAAAAAAA
Sequence 2460
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Sequence 2461
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Sequence 2462
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AATTTNCACACAAACANACNGAGCCTGGGAGCATAAAAAGNTGATAAAGCCTNGGGGNGC
ACTAATGAGTTGAGCTAAACTTCACAATTAAAT
Sequence 2463
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Sequence 2464
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CCACTCCTTNAAATATTGGGGATTCTCTTAATTAAGGTT
Sequence 2465

Table 1

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AACCCNTAAAGGCCTCNGGGGNGGGAAGGACNAATTAAAAAAAGTTTG
Sequence 2466
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AAAGGTAAAACAAAATTGCTCC
Sequence 2467
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Sequence 2468
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NNTTGGNTAAAANAAGGCCNCNTGGGGGG
Sequence 2469
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GCCAACTTATGCCCTCNTCAGAAAACAATCAACNCTTACTCACATGCAAANGAANCGGGN
CATTNGGCAATTAACAATGNGGATTGGATGGTAGTACTTGGGCAAAACNCATGAAAAAAA
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NCTTCCCTNNAAAAAA
Sequence 2470
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAAAAGCAAGGNGATCTGTGATATTTT
CGTCCTTTTGTATGATTCTCTACTTCTTATTCAAGACCTGTGATTAAGTTGNGTGTATAT
TGTCTGTAAAATGAAACAAAAGTAGGTCCTAAACATTGTAAGAATATGGTATACTAAAAA
GCTTTGAAACCAAAAGAAAATTTAAAAAAACAACAACAACAACAATGTAGAGTACCTCAT

Table 1

ACCTAACAGACACTATAGAAAAGCTGATATTTTTTTCCGTTGAAGTTAGGACATTANATC
ATTTTTCACAAAAATAGATTCCTTAAATAANACATGTTGTCTAACAGGTATTTACA
Sequence 2471
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TTGTCCTTAGTAAACCAGGATTCATACCAGGTCATCTGATGTTTAGTATAGCACTCACCC
GACTCTGCCTTACATTGCTTATTTAAAATGTCTGCCTCCCCTTCTAGGTTTTATAAAAGT
TCTTGGCTCACAGTAACTCTTAGTATAAGTTTCTGAAATAAACACTTTGTTATCACTTTT
GAATTGATGGCTTACATTTTTGTTTTGGCATTTAACTTCACATTTGTGCATTCATGTGTA
TGCATTTCAACTCATCTGCAAGCTTATATCCCTCAAAGTTTGCTGCTGGGC
Sequence 2472
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AACTTCATTTTTACATAGTGTAGTCCAGCTGGAAACGTTTATTTCATGTTTATCTTTTAA
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ACTGGAGCTGTTCCTATTCGGCCATCTTGGCTCCTCCCCACTAATGCTGTTCTTCTAGAC
ATGTTTGAAATAGGGGCATTGCTATAATGAATGGCTAGCAAGTAGGACAA
Sequence 2473
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AGTTCANAGCATTTAGTAACTTCCTCAAATTTATACACCTNAATAAGTGGTAGAGCCAGA
ATTTG
Sequence 2474
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GCCCCAGCGGGTGGTCCTCGCTGTGGATCGGCTACTCTTTTGTGATGCACACCAGCGCTG
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nnnnnnnCGATATCAAGCTTATTCGATACCCGTCCGACCCTCGAGGGGGGGGGCCCGGT
ACCCCAGCNTTTTGGNTCCCTTTAANTGAAGGG
Sequence 2475
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AAATGGTAGCTGAGACCAATGATGCTGACCTCCCTCAAAAGCTGCATTTCTGAATTTCTG
AAGGCAAACTGTCTGCCTATATTGTACAGCAAAATAATTTCCTGTATTAAAACGTTTTTA
TTGCTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT
Sequence 2476
ACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGGGGGTAGGATGGGAAGCCGTG
GGGCAAGGGAGGTTGCAGGAAGCCCATCCTTCCCCTCCTGCGGCAGGTACCT
Sequence 2477
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CATATAAAATACTGCATAAATAAGTGAAATTTATAAATGTACCTCGGCCGCTCTAGAACT
AGN
Sequence 2478
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GCTGGTTCGGGCTGCCATAAAAAGCACCACAGACGACATGGCTTACACCACAGAAACTCA

Table 1

TGTTCTCCCAATCCTGGAAGCTGAAAGTCCAAGATCAAAGTGTTGTCTGGGTTGGTTTCT
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CACATTGTGAGTTTCTCAAGGGTTAGGACTTCAACATGTATTATTTGAGGGAGTGGAACA
CAATTCAACCCCATT
Sequence 2479
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTT
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GGGGGGGGAAAACTTAAAAAAAAAAAAAANNTTTTNCNAAAANANAAAAANGNNNNTAAA
AAAAAAA
Sequence 2480
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AAAANNAAAAAAAATTNNAAAAAAAAANTAAAAAAAAAAAATAAAAAAAAAAAANNAAAAA
AAAAAAAAAAAATAAATAAAAAAAANNTAAAAAAAAAAAAAAAAAAANAANTGAAATNNA
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Sequence 2481
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GGCGTTGCGGCTCACNTGCCCGCTTTTCCAAGTTCGGGGAAACCT
Sequence 2482
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GTCAGATACCAGGAATATACTATTTTTCATACCACGTGCATGTGAAAGGGACTCATGTTT
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TGGAGNTATGGTCCCACTTCCTC
Sequence 2483
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ACCAAGCCACAGATGTGGAGGAGGCAGGTAGGGGGTCAAAGAGGGGTGGTNTCGGTTATT
CAGGACTTTTTTTTTTTCTTAAATATCCTGNGCTTNTTTCAATCATTTGAAGGTAAAACC
AGGTCCTGNGANTGGTAAACTGATTTTTGGTTCT
Sequence 2484
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nnnnnCTGCAGGAAATTCGATATCAAGCCTTATTCGATACCCGTCGACCTCGAGGGGGGG

Table 1

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TGGGCCGTA
Sequence 2485
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GGT
Sequence 2486
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TTTTGAGGTGTATGTTATACACACAGTAAATTTTTGTTCAGGAATGACTTGCTCATTCTG
TGTTTTTAAAAATAGGAAATGAGGCATAGTGAGTCATCATTACATCAATTAACCAAAAAA
TATTTCATCCCCTCCGTCACTGAAATTATCTACTTCAGCCACCTTTCTTATTCTCCGTGT
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TTACCCGGGCAGTTAGCCCAAAAGGCTAGGCCTGTTTCAGTTCCCACAGGA
Sequence 2487
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AAAACAAGATAAGCGCTTTAGCACCTTCCTCAGCCTACTTGAAGCTGCAGACTTGAAAGA
GCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACCAATGATGCTTTTAAGGG
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ATTCTTTATCACCCTGACACCAGGGAGTTTTCATTGGGAAAAGGGATTTTGGAACCCTGG
GTGGTTTACCTAACATTTTTAAAAGGACCCACACAAGGGAAGCCAAAAATTCTTTTCTTG
AAAGGAAGGTAAAA
Sequence 2488
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CAGCATTTTCCCCAACCAGCATTTCACTTAGTCTTCTCTATACCCAGCACCTCCCCCGGC
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CCTGTTCCACATTAGGGCGAAAGCAGGGAGAAACACCTGGNGNAGCCAGCCAGGGATGGG
GTTTTGGGAAAGGAGCCATGCCCTCTGGG
Sequence 2489
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GTCCATCTTGTCGTCTTCGGAAATGTTATGAAGCAGGGATGACTCTGGGAGCCCGGAAGC
TGAAGAAACTTGGTAATCTGAAACTACAGGAGGAAGGAGAGGCTTCCAGCACCACCAGCC
CCACTGAGGAGACAACCCAGAAGCTGACAGTGTCACACATTGAAGGCTATGAATGTCAGC
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TGGACACCGACAANCAACCCAGGCCCCGACTTCCTTTGGCAGGCCTTTGGCTTCTCTAGC
CCTCACTGGAACTGGGGGAGNAGAAGA
Sequence 2490
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTCTGGTAACTTCAAAGC
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ATTTCANAAAATCTTCTTTAGACAGAACATATTGAGTCTNTGCAACAGCATCTCCCACCA
CTGTCTGATGCTGANTTGCTGTGGACATGACGCCCAACTCACTATACATCCCGGGACATT
CAGTCACTTNAGGCTCCTCGGGNCGGNGGGGCCTGCCCTCNCGATTTCTTCCAGC
Sequence 2491
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAATAGCTCAAACTCAGAGTCA
TCGTGCTCCCAATTCCAAAGAGATTCCTAAAAGAGGCAACTT
Sequence 2492

Table 1

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ACCTGATAACATTGCTCACATGAAGGCCAAGGGAGCAGCTGTTAGATTGGACTTCAACAC
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AGGAAATTCCGATATCAAGGCTTATCGATACCCGTCCGACCCTNCGAGGGGGGGGCCCCG
GGTACCCCAGCTTTTTGTTTCCCTTTTAAGTGGAGGGGTTTAAATTGCCGCCGCCTTGGC
CGTTAAANCATGGTCATT
Sequence 2493
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AGATGGGTTNGACAAAACCCCCAGT
Sequence 2494
CCGCGGTGGCGGCCGAGGTACCCCCAGTGATGGGACATGGTCGCGCTGGCGGTCGGGGCA
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Sequence 2495
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Sequence 2496
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TGGGGTCCCGAGGNGGCTCAAATGGAANCCATGGGA
Sequence 2497
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTTTGAGAAGCCAGCGCTCACCC
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CCCGTCCGACCTCGNAGGGGGGGGGCCCCGGTACCCCAAGCTTTTTGTTCCC
Sequence 2498
CCGGGCAGGTACTGAGTCAAGGACGTCTTTAACGTCATGGACGGCTCCTTTACCCACGCT
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Table 1

GGCTAACCCTGGGTCTTCACCTGCATTTTCCTTTTGAGCTGCTGATGCTTCATGGCAAGG
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CCTTCGGAGGGGGGGGGCCCCCGGT

Sequence 2499

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGG
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TACACTCTGGCCAGAGATACCACAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCT
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ATTATTTCATCACTTTGGAATGAAGTGCCCCACCACAGTCAAGCCTTTTAAAGGAAAAGG
TGGTTTGCT

Sequence 2500

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CATTGTGGTAAGGCAGNAAATTAAGCCTCAAACCCACCGGGTGACCCTATGTAGGTTCCT
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TCACTGGGAGCT

Sequence 2501

ACTGTNNCCCGACCCTGCCCGCTTACCGGGATACCTGGTCNCGCCCTTTCTCCCTTCGGG
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Sequence 2502

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCATGTGGGACTCCAG
GCACCATCTGTTCTCCCCAGGGACCTGCTGACTTGAATGCCAGCCCTTACTCCTCTGTGT
TGCTTTGGGCCACCTGGGGCTGCACCCCCTGCCCTTTCTCTGCCCCATCCCTACCCTAGC
CTTGCTCTCAGCCACCTTGATAGTCACTGGGCTCCCTGTGACTTCTGACCCTGACACCCC
TCCCTTGGATTCTGCCTGGGCTGGAGTCTAGGGCCTGGGGCTACATTTGGCTNTCTGTAC
CTGCCCGGGNCGGCCGCTCGACGGGTTATCCACAGNAATCAGGGGGGATAACCGCCAGGG
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AG

Sequence 2503

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GGTGGCCAACATCATATACCTCTTGAAGAAGAAGGAGTCAGCCATCGCCAACTTGTCTCT
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GGCTAATGTGNTCTGGTGGGACC

Sequence 2504

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CTCCANACTGAANAGTCCATGGGCCCCTGTGCATGTGANAGCTACACAGGGAATCGCTGT
CACCTTCCAAGGATAAGCAGACAGGGCCACACATGCCATGGCCACTCGGNGCACAGGGGC
CAGGCTGNGCCCAGAGACCCAGGCATCCAGCTTGCATTCCAAGTTCCTTACTGAGAGCCC
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Table 1

GAAANAAANAATGTTCTGGGGNGGTCTGTAAGGGGACAATTGGATCATTCAAGGGAAGGG
GCC
Sequence 2505
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TGGTCTTGGCCTATGCCTTATGGG
Sequence 2506
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCTGACACTGCAGTGAAGGGCATG
CTAAGTCTAGGCACAGGTCCTGGCAGCAGGAAGGAGACAGAGCCTCTCCCAGGCACACAT

Sequence 2507
ACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCACCAA
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CCGGGTACCC
Sequence 2508
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AAATTCAAGGGCTGGAAGGGAAAATAGNCAAAATTCACCCTAC
Sequence 2509
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTAAACTTCTCT
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Sequence 2510
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GCCCTTTTCCAGGAGCCTGTCGCACCCAGTGCATGGATAATTCAGTGAGGGTGTATCCGG
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CCTCGGCCGCTCTAGAACTAGTnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnCTT
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Sequence 2511
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Table 1

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Sequence 2512
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CCCAAAAATTTAACCCCCTTTTT
Sequence 2513
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Sequence 2515
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Sequence 2516
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Table 1

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Sequence 2520
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Sequence 2521
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Sequence 2522
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Table 1

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CACCATGACAAGGTAGAAGGAGGCAAGGAAGGCTCCAACCAGTGTCTCAGAGGAAGCATG
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Sequence 2523
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Sequence 2524
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Table 1

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TTAATTACCCCCATACTNCTTACACTANTCCTGATCACCCAA
Sequence 2528
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ATTATAACAAATTTCCAATAATCCTGTCAATTATATTTCTAAATTTTCC
Sequence 2529
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Sequence 2530
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Sequence 2531
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Sequence 2532
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Sequence 2533
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Table 1

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ANCCCAANCTTTTTTGGTT
Sequence 2534
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ACCTT
Sequence 2535
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Sequence 2536
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Sequence 2537
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Sequence 2538
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Table 1

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AANANGA
Sequence 2539
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Sequence 2540
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Sequence 2541
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Sequence 2542
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Sequence 2543
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Sequence 2545
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Sequence 2546
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Table 1

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CC

Sequence 2547
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Sequence 2548
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Sequence 2550
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Sequence 2551
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Sequence 2552
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CTCAACACTGTGATCTGACCTGTGACAAGTCTGTACCT

Sequence 2553
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Table 1

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Sequence 2554
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TAAAAGACATCAGATAACGCACACAATAGGAGAAACCCT
Sequence 2555
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GNACNAANCACCNTGGGGAANGGGGGCACTTAGNTNTTTCGCTTATCCCCCTTTTAANNC
CAACCTTTCNNCTCTTTTCNACACCNCAAGTCTCCCTCGGNACCTTNTCCNTTATNGNNN
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Sequence 2556
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TTTCCTCTCCTCTATGGAGAGGGGAATATGCATTAAGGTGAAAAGTCACCTTCCAAAAGT
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TGCCCGCGTACCTGCCCG
Sequence 2557
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AAAAAAAAAAAAAAAAAAGTACCTGCCCG
Sequence 2558
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Sequence 2559
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Table 1

GGAGCCCTTATCCTGACCCTTGTGCAGATAGCCCGGGTCATCTTGGAGTATATTGACCAC
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Sequence 2560
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Sequence 2561
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Sequence 2562
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CAATTATGCAGGAGATGCTCTAAGAGAAAATACATTGGTTTCAGAACATGCACAAAGAGA
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GCCACNAAAAGNCAGGATTACCATTGGTATTTCATTTTTCTTGGGAGAGGGAAAATGCCA
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Sequence 2563
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ACTGCTGTTATATAGCAAGACATAAACA
Sequence 2564
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Table 1

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Sequence 2565
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CTACCTTTGCACGGTTAGGGTACCCGCGGCCCGCTCTAGAACTAGTG
Sequence 2566
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATTCATTGTANG
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TGAGAATCAAAGTGGGAGGGCTCTTGTGAGTCTGCTCGTAAATAGCCTTCAGTTCGATCA
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CTCCTAGAGCTGGTTAGACCCTTCCACGTGGGAANTCAAAATAGGCACTTTTCTTCTATG
TTTTNGAGAAGACAGAATGACTGNAAAAAGGTGGGTCCTCTTTTTTCAT
Sequence 2567
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TAAGAGTGATAATGGGAAAAAATAGACAATTTG
Sequence 2568
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CTGTGCCTCATCCCGTGCCGCTCGGTCTCTGGCTGATCCCGAAGGGCTTTTGTCTTTCCT
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Sequence 2569
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Sequence 2570
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AGCNTAGAAGGAAAAGAAGAAAATATNAGGAGCTTTGTGCATCTTCTACAATGCCTGCAA
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N
Sequence 2571
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Table 1

TTCAGCAGAGTTTCCAGTCCTGAGGTGTATGAGGCCAGCTGGAGCTCATAATCCTTAATT
CCCGCGTACCTGCCCG
Sequence 2572
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CTTGGTGCCTGCGTGGGAACGCACCACCTGCCGTGGAACTTCCTCCTGCGGGGCAGAGGA
GGGGTCCCCCGCGTACCT
Sequence 2573
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CGGAAGCCGGGCTCCGCGCGACTGCCCCCGCGTACCTGCCCG
Sequence 2574
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Sequence 2575
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GGGCTGGTGGGAACAGCCGCCCGAAGGAAGCACCATGATTT
Sequence 2576
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Sequence 2577
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0

Sequence 2578
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GGCACACGCGCCCCCGCGTACCT
Sequence 2579
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# Table 1

Sequence 2580
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Sequence 2581
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Sequence 2582
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Sequence 2583
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Sequence 2584
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Table 1

CTTCAGCTTGCAGTGTGAAAGGGGCAGGGAAGACTGGCCAGCTGTCAAAAACTGGAACAG
TC
Sequence 2585
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ANCTTTNCAGCCTGGGACCAACATNGGNGAAACCNCGTATTCTNCCAAAAATTGAAAAAT
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NNGNNTNCCCCCGGGCNNACCCCNTTNANGGGGGGGGG
Sequence 2586
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Sequence 2587
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CCTTNNGAAGGGGGGGG
Sequence 2588
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AGGACGTGATGCAGTTTCCGTGGTCACTCTCACCAAGAACTTCAGGGGTTACGACTTCAA
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CGTGTGTGAAAGAATTTCTTATGTGGACACCCATCTTCTGTATACCTGTTAGTGTCCCAA
ATAATGACATTTCCATCAAATCCTGATGTTACTAAGAGTCTTGTATTAAGTATCA
Sequence 2589
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TTAATAGTTNCACCAGATGTAATAAATATCAAGCAATATAATTAAATAAATTTCTACCTC
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Table 1

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Sequence 2591
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GCACCCACCCTTAGCTCTGATAAGGATCCCGCGTACCGTGGCCTACAATGACACACAAAT
CCCATTAAATAAATTATAAACAAGGGTCAATTCAAATTTGAAGTAATGTTTTAGTAAGGA
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TGTAAAACAGTTACAAAAATAAACGAACTCTCCTCTTGTCCTACAATGAAAGCCCTCATG
TGCAGTAGAGATGCAGTTTCATCAAAGAACAAACATCCTTGCAAATGGGGTGTGACCNCG 0

Sequence 2592
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GCAGAAATACTGATC
Sequence 2593
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Sequence 2594
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Sequence 2595
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Sequence 2596
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GTAAGAAATTTGGGAAAGCCTTCAGTCCTTTCTGTTTCTTTCAACTACGTGAAAGGATTC
ACGGTGGAGAAAGACCCTGTAAGATAATTGGCTTTAAATTACGAGAGACTTGTGATAGGA
CAGTAAAACCTAGAGTTGGAGTTGGATCTCTGGATTGTGTTATGTCAGTGTTGGTAGGTT
AGGAACTAGATTTCCCAGAATCCATTCCATTTGTGATTCCATGATACAATTCACCAGTAA
CCTATCTTTACATGAGATTCNGGAAGTAAGTTAAGAAAGGCATTAGTCATGGTTTGGAAG

Table 1

CACCATACAGGGAGACAGCTGTGTGAATACAGGCTGTATGGACACTTGCTTCCATCCCAT
TTTCCTGCTTCTTTGGGTTGGCAATCAAGAGTATCCTCAAAACGACTTGACTTTAATTTT
CT
Sequence 2597
CGCGCAGTCCGCCTGACTATACTACCTTTAGTAAATAAACCNCCCTTTCNGGATGCCACT
ATCTCCGATGGCACTATACCCTCTCTACCTTCTATACCACTAAATTAAACCAACTCCCCT
CCTCCTCCCAAGCNATAAAATAAAAATATACAAACCCTGGCCAAAATGANNAAAATCTG
TCNTTATTATTGCCCCACAATCCTAGCCTCNCGCCGAGACCTCGGCGNTCNAAACTAAGT
GATNCCCGGCTGAGNATCGTATAAGCTNATCGATCCGCGCCTCGANGGGGNCCGNACCC
Sequence 2598
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCTTCCTTGT
CTTTGGTTTCATTGTTTTTTCTTTATCCCATTTCCCCCTCTAGTGGTCTAGAAGTAATAA
ATCCTAATACTGCGTTTGTAATACTTGCTCTTCACATATTTGTATGCAGCCAGTCACAAG
TGGAATGTGACTAGAATCCTTGTTACTCAAGAGGCTGAGGTTGAAGGATCGCTTGAGCTC
AANAATTTGAGTCCAACCTGGGCAACATGGNGAAACCCCATNTCTAAAAGAAAATNCNCN
CAAAACTAAGCTTGATTACTTTTATATTTTCTCCAGAAACAAAAAGAAATCNCNCTNTGC
TGNCATACTCACCCTNCCCACACTGNTCCTTCAGCAACATATACCATTGTTTTTAG
Sequence 2599
NGGCGGCCGCCCGGGCAGGTACTGGCTTCCTTGTTAATCCTTTATCCCCTTCAGGTGTTA
TTCAAATGTCATCTTCTCAAGAAGGCCTTGTGTGATTAGTTTATTGAAATTATTCCACTC
AACTCCTATGTCTAACACTATTCAAGTCTCCTTTCCTGCTTCAATTTTCCTNCTGGGCTT
CNTACCACCATCTNAACTTGGGAAACCATGTAATATTGTTGACATTATTTTGGGCTTAGN
ATTAATTTTCACCCCATTTNAGCCATNGTAAAACCTCCACGAAAGGCCTTTTATTTTACT
GCAAGTATTTTNCTGCCACCCTAGAACAGTATTTGGGTTATATAAGCAAGGTCACTTTAA
AATATTTTGTNTGAATGGAAGTGATGTAAGAAGGAAGGGTTCCAAAAAAAGCCCACTTGG
GAAGAATGGTCATGGGCTTTGACCCG
Sequence 2600
CAGGTACAGTGGATTTTTCATTTGCAAAGACGTTAAGCCCTCCAAATGTGCAAATCATGA
AGTCAGTNGTTGTTCCAGCAAGGTTTGCCCAGCGGTAAAAAACAAGATAAAACTAATGCA
CTAGCTGAAACCAGGTGGGGAGACCATGTGTGGTAGTGCTTGGGGGTGGAGGGAAACTAT
TTCTGAAATGAGGACTTAAAGTATAATACCAGCTTCACTGCCTGTTCACATGAGAAACCA
AAGCTTCAATTTAACTGCANGCAATAGGAGTTTCACACTGTCAGCACCAACTGTCTAANA
TNCAAAACTAGTATCTAAATGTGTAGGATCAAAACCAAAAATCTGGAGGGATCTAGTTAA
ACTTCAATATGCATGACCCCAGATTCCCN
Sequence 2601
AGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCTTTCTGGCAG
TGAATGGTCTGTATTCCTCTAGTGATGATGTGATCGAATTAACTCCATCAAATTTCAACC
GAGAAGTTATTCAGAGTGATAGTTTGTGGCTTGTAGAATTCTATGCTCCATGGTGTGGTC
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ATGTTGTCAAAGTTGGTNGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTCAGTAT
GGTGTTCAGGGATTTCCTACCATTAAGATTTTTGGATCCAACAAGAAACAGGACCANGAA
GNATTACCAAGGTTGGGCAAGAACTGGTGAANCCATTGTNAGATGCCTGCGCCTGAGTGC
CTCTGCGCCAG
Sequence 2602
CCGCGGTGGCGGCCGCCCGGGCAGGGTACAATACAATCTAGATGACGGTGCAGACTAAGT
CAAGAACTAAAGTTGTGCAGTAACCCGAGTTAAGGCATGAATGCAGACACACACATGCAC
ACACACAGCACCCATGCTATCAAGACACAGGATTTTTTCAGTTGCCTCATGAGAGGGCAA
CCTGGGCTTGGCAGTTAATCAGAACTGCTGAGCATTCCAGAAAATGCCCCCCACGACTTT
ATGCTAACAGCTGTGTGTATGTTTTAATCAAAAAATTAAAGAAGAAAAAAAAAACCTAAA

Table 1

AAACAAAGAAAAAAACAAACAAAAAATCACCAAAAACCTAGAAACCCCTTAATCTCTTAC
AATGGCTCTTGAGCATGGAACTCATGTAGCAGCATCAATGGCTGGCTCTTTAACAATTTG
GAAATAAAAGGGTTGTTTTACTATGTATTTCTTT
Sequence 2603
TGGGAAACCGGAGCTCCCTTTNGGTGGCNGCCNCCCGTACGCGGGATGTGGCAGTGAGTG
GAGGACTGTGGATGAGTGACCCCNTTAAAAGTAAGATATTGTCACATAAGCTCTTGAGAC
AGTTAACTCATTATCTGCAGTTTCTTCCATTCCACAATAGGCTACTTATTTTTAATGCTG
TATTTACATTGAGNAAANACCTCATGTTTNAANTTTTNATAAAGAAAAAAANTATTNANC
TNNTTNTANTTCTACCAGAAAGGGTNGGACNATNTTCNAAAAAGGGCACCGGGTGAAATT
ACCTNATGGTNCANATGNACCNGCNACTGCTTTNGCCCATATGCCCAAGGGANANTACCA
NTTGGGNTCANAAAANANCCATGAAANTGGGNGGAAAAAAACTNATTCACTTTCANNAAG
GATACCTTGGGCCCATTCAANTCAAAGGGTACCTTGCCCGG
Sequence 2604
GAATTGGAGCTCCCCGCNGNGGCTTTGTNTAATGATAGGAATTATTCCTTTAATTTAAAA
AATACTTTCAATTTTTTAACAGTTTTTTCCTTACTTGNCCAATGGGATGTAGGAATTCAN
GAATGGATCCTGCCATTGCTTTGGTGCTGGCCATTATCA
Sequence 2605
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGAACAATCAACAGTT
TCTGATGTTCCGAGGGACCTGGAAGTTGTTGCTGCGACCCCCACCAGCCTACTGATCAGC
TGGGATGCTCCTGCTGTCACAGTGAGATATTACAGGATCACTTACGGAGAAACAGGAGGA
AATTNGCCCTGGNCAAGGNANTTTANNTTGGGNCCCNGGGAGCAAAGTTCTTACAGCTTN
CCCANTNAAGCTGGGNCCTTTANNACCTTGGGAGNTTTGAATTTATTACC
Sequence 2606
TGGTNAATCCNNTTCACAATTTCCACACCAACCATACCGAAGCCGGGGAAGCATAAAANG
TGTAAnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnAAGGGCGGTTTTGNCGTATTGGGGCCGCTCTTCCCGCTTTCCTCG
Sequence 2607
CNAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCATGCAGGCGTGCACGTT
TCCCGGCTCTCCGCnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnAGGGTTNAATTTGNCCCNCTTGGCCGTTAATTCATGGGTCATAAGCTTGTTT
TCCTGTGTTGAAATTGGTTATCCCGCNTCACAAATTTCCAACACANACATTACCGAAGCC
CGGNGAAGCATTAAAAGTGTAAAAAGCCCTGGGGGTGCCTTAAATGGAAGTGGAAGCTAA
CTTCACATTAATTTGCGTTTGCGCTCACTTGCCCGCTTTCCAGTTCGGGGAAAACCCTGT
NCGTGCCANGCTTGCATTTAA
Sequence 2608
CGGCCGCCCGGGCAGGTACACTTATNGTTGAGAGCCANGTCTCCCTTATCATTGGTGAAT
GAGAATGAGCTACTGAAAACAAAAAGAGGGTCTTCTACTTCAGCCTGTACCCCTAANATT
TTATTATCAGNAAAGCAGNAGATTNACCNGTCCTTTACTTNTTTTACCNCCCTTTTAATN
NGGGTAAAAANAAAAANGGTAAATGTTTTCCCCTTATNTAAAANAANATTTCCCTTTCCC
CNGGTTTTCCTAACCCCCTTGGNNAAAAAACNTTTTTTAATGGGCCTTTTTNTTCCCTNG
GTTTTNACCCANTAAAANTCCAATGGGGCCAATGGGGGGGGGCCTNAATGNAAACNCCTT
AAAAAACCNTCAATTTTTNTTTGCAAAAATTTCGNGGGCAGGGNNTTGGTTTTCTGAAAG
NGGGGCCTTANTAAAATNTTTTCANTNCNNTGNGCCNTTAATTTTTGGGAACCANNNCAA
NANTTTTGGANTAAAATAATTGGGNTTGGGNNTTCNCANATTTTTTCTCCATGNAAGGAT
CANNNACNNNTTGGNANTAAACNCATAACANTATCTTCTNTGGGGTANTCCCCCACNANT
NTTATTTCCAAAAATTGG
Sequence 2609

Table 1

CTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTGC
ATGCTGTGGAGGAGGGTTTCAGAGGAGAGAGGTCGGAGAGCAGAGGCCTGAGAAGCCAGA
GGCAGGTGGAGAGAGGGTGGAAAGTGAGCAGCGGGCTGGGCTGGANCCGCACACCGCTNT
CCTCCCATGNTAAANNNGCCCCTTTAGAAAAATTTCACAAAGTCCCCCTTCCNAANTAAA
NNNANATATATATTTTATAAGTTACNCTNNGGCCGCTCTAGAAACTATGGNGGGNANTCC
CCCGGGGCNTGCAGGGNAAT
Sequence 2610
GCAAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAAAGCGATCGGAACCCGGGAATGAAAT
CGTCCCAGGCGCGGAGTGGAGCGATATTAACGTCCATGTTCTCAGCTTTGCGTTCTTCGC
CTCCAGAATCTGGCGGCGGCGGCGGCGGCAACCGATCAGCTGAGCTGAGTTGGAGAGTTG
ACAACCCCCGNGNTNCCNTTTGGCCNGTTCTTAGAAACTAANTNGGATCCCCCCGGGCTG
CANGGAATTTCNATANTCAAGCTTATCCGATACCCGTnnnnnnnnnnnnnnnnnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnAGTAAATCATTGGT
CATAAGANTGATTTTCCTGTGTGAAAAANTTGNTTAATTCCGCCTTCACCAAATTCCCAC
CAC
Sequence 2611
TCCCCGCGGTGGCGGCCGAGGTACGCGGGTGTTCCTTTTTGTCCAAAGTCTATTTTTATT
CCTTGATATTTTTCTTTTTTTTTTTTTTGNGGATGGGGACTTGTGAATTTTTCTAAAGGT
GCTATTTAA
Sequence 2612
GAGCTCCCCGCGGTGGCGGCCGTTTGAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTG
CATTGACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCATCCTGGCT
CCCGTGGGGCTTCTTCTATCTACGCATTGTATCGACTGCATTAGTTGGACTAAGAAGGAN
GCNTCANNTTAAAAGGGNGGAGACAAAATGCCTGAACTGGTCTAAAGCCAANGAAATGGG
CCCCAAAGCTGGGCAAGNAAAAAGCACCACTGCATACATAGGGATACAGAAGGGCAGAGC
TTCTGCCTGCGGATCTGCAACATTACATNTTGTTTTTGCCTGCAAACTATCAAG
Sequence 2613
CCGCGGTGGCGGCCGTGGGACCTGCAATNACTACGCAAACNCTTACAGCTTTTGGCTCGC
CACCATAGAGAGGAGCGAGATGTTCAAGAAGCCTACGCCGTCCACCTTGAAGGCAGGGGA
GCTGCNCACGCACGTCACNCCGCTGCCAAGTNTGTATGAGAAGAACATNTNGAAANCCCT
GGANTNNCTANATGTNAACAACATTGGTGCNTACTTTCTTCTTTCTTTTTTTGTNTAACC
AGCAAACNAAACCCTTAANAAATTATANNCGNTGTGTTACCCTCGGCTCGACTTCTAGNA
ACCTANGTGNGA
Sequence 2614
GAGCTCACCGCGGTGGCATGCGGCCGCCCGGGCATGGTACTCCTGCCAAGGCANGCTCCC
ACCGCTATGGGCACAAGGAAGTTGTCGTCATCTGCACTGCANNCTTGAGCTGTAGAATNC
T
Sequence 2615
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTGGTGGCCAATT
GATTTGATGGTAAGGGAGGGATCGNTNACCTGATNTGTTATATNAANGANTCAACGGGCT
GAACAAGGAACATCAGCATCCTTTATGAAATGGATCCCCAACAATNNCAAGACANCCGTC
TGTTACATNNCACCTNNNTNGGCCTNAAAAATGGCAGTCACCTTCATTGGCAATAGCACA
GCCATCCATGAGCTNTTNAAGCGCATCTCGGATCANTTCACTGCCATGTTCCNCCGGAAG
GCCTTCCTCCACTGGTACCT
Sequence 2616
CGACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCCCGCCCGGGCAGGTACGCGGGGT
CCCAACCAAGCCCTCCAGCAAGGATTCAGAGTGCCCCTCCGGCCTCGCCATGAGGCTCTT
CCCGTCGCTCCCGGTCCTGGTGGTGGTTCTGTCGATCGTCTTGGAAGGGAGTGGTTTTCA
NAGACATTTCAGAAAGTGAAGGAGAAACTCAAGATTGACTCATGAGGACCTGAAGGGTGA

Table 1

CATCCCAGGAGGGGCCTCTGAAATTTCCCACACCCCAGCGCCTGTGCTGAGGACTCCCTC
CATGTGGCCCCAGGTGCCACCAATAAAAATCCTACCANAAAAAAAAAAAAAAAAAAAAA
AAANGTACCTCGGCCGCTCTANAACTAGGTG
Sequence 2617
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTTTNGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTANCAAAAA
NAGGGNNGAAGTTTNTTTNTTNTANCCCCNTTGANACNTTTTGAAATTGGAATTGGTAAA
AAAAANAAAACAAAAAGCCTTTGAATTGTTTTTGGGGGANCNNCAAAAAAANANAAGTTT
CNTTTTTTTTTNNCAAATTNTACTGNTTCCAAACNTTTTGGAAANAAANAACTGGAATTT
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TTTTTT
Sequence 2618
CCGCGGTGGCGGCCGAGGTACCTGTGTCAGGAGTCCCCAAGCCCACTCCCAAAATAGAAA
ATTCACTAAAAGGAGTCAAAGGATTCAGCATACAGTAATATTAACAACTAAGATTTATTC
CAGCAGGATACAAAGCAAAATAAGAAAGGAAAAGTCGCATGGGGCAAAATCAGGTGAAAG
CTTCCAAGAGTCCTCTCCCAATGGAGTTACACAGGATGTGCTTAATACCTCCAGCAACCA
GTTGTGACAATACATGCAAAGAGTGCAAAGTCTTGTCCACGACGGATGTTCTTTTTTTTT
TTTTTTGAGAAAGCCTTGCTCTGTCACCCAGGCTGGGAGTGTGGCACCGATCTGGGTGAA
GAGCAAGACTCCCGTCTCAAAAAAACAAAAGAAAAGGAAAAGTTCCAGTCCTTGTC
Sequence 2619
CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGATGCTTTCAGTTTAATAGTTGTTTTAAAT
TTTTTTTTTTTTTTTTTTTTAGGNTTTAGGCTGAAAACNTAAAGCCTGCTGCTCCTGGGTN
TNATTTCTCAGCTTNTCCTTACAGCTNTAGTACATANAATACTCCTTTTTTTAAGTCTAA
NTAGCTTCANACCAAATCGGTCTGACCCAAAATACCTGCTNNTNTGGANAGNGGGATGGG
GAGAAGGTAACTAGAAAATGCAAGATCNTNTTTACCCCAACAGCATAAAACCNCCCTAGC
TGGGGCTNTGGCTGGGAGGGAAATGCTAGTCATTTTTTCC
Sequence 2620
ATTGGAGCTCCACCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGGGAAGAAGGGACAAAA
CTAAGGGTAAGCGAACTTTGGTTCTAGGAATGGCAAGACCAGCAAGAAGATCACCATTGC
CAACTGTAGCCTTTACACAATGTCATAGTAGCCCAAATTCAGTCAGCTATTGAATTAAGT
TTATTGGCTTCCTTTNNCNAGNTAAAAGAATGTATGAATGCTTGTCTTTAGAAGATAACA
TCATATGGAGGTTCTACAACTTCTTAGACACAATTGTCAAGCTTTTAGTAAAATTATACT
AGACATTCAAGAGATGGGATTGAAAACCAAGAGAAAGGGCAGACAATAGAAATATACTCA
CAGATGATTCAGGCAGTGGAGTTAAGACCAGGACTTGAAATAACAATGATAATTGTTCAA
GAAAATAGAAGACAGGGAAAAAAAAAAAA
Sequence 2621
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTCAGGAACTGTATAATTTTGGATATTGAACTGTTCTACTTTTTTTTT
TAAATTTTTATTCCCCCTATCTTTGCCTTGTTCTTCTAAGTCTGAAAATTTTTTCTTTTT
TTCTTTTCAANGTTGNNGTCTAAACTTNTAATNNNAGGTTTAAAGACCTGCTAATATGTA
TTTAATTTCCAGGTTTTTTNAGTTTTCTATTTCTTTTCACATAACGTTTCTTCTTGCTTC
AGTCATATAATATCCTGNGTTTCTGAATATTAATCTTCATTNGTTTTGAACATTTTTTTT
NTTACCANATGAAGAGGCTGATTGATTNGGAGTTTTCCTGGACAGGGATATNCATGAGNC
CTTTTT
Sequence 2622
AGGTACGCGGGAGAGTTCTGCCTCGCTTCCCGGCGCGGTCGCAGCCCTCAGCCCACTTAG
GATAATGGCGACAGCTGAGGTACATTGTGATACAACTTCTTCACAGATGAAGGCCAGCAG
AGACAGCAACAGCTGCAAGCCCTTGAGAACGCGCCGGAGCAATGGGAGCCGGCCCATGAA

Table 1

AAAGTAGGCAGCGAGGCCGCTCCGGGGGCCTCTGGCGGGGCCCGGGTCCTCCTCCGTAGT
GGGGCTGTACCTGCCCG
Sequence 2623
AGGTACGCGGGAGAGTTCTGCCTCGCTTCCCGGCGCGGTCGCAGCCCTCAGCCCACTTAG
GATAATGGCGACAGCTGAGGTACATTGTGATACAACTTCTTCACAGATGAAGGCCAGCAG
AGACAGCAACAGCTGCAAGCCCTTGAGAACGCGCCGGAGCAATGGAAGCCCGGCCCATG
AAAAAGTAGGCAGCGAGGCCGCTCCGGGGGCCTCTGGCGGGGCCCGGGTCCTCCTCCGTA
GTGGGGCTGTACCTGCCCG
Sequence 2624
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAGATTCATGTTGTTTCTAATTTTTT
ATATATAATTGACAAAATGAAGAAACTTAACACCATCCTAGATTTTAGCTGCCCAAAGAA
TGAAAAGAATGAAAAAAAAATCTTTGAAAACCCACAAGTGATATGGATCTAATTTATGGT
TAAATAGATATAGATAACAAACAGAATACGCCTGTTTAAAACTGTTAAAATGACATTGGT
TCTAATTATACTTTTATTTAAATTGAAAGACAAGGCATTTATATGGTATCTCTAACCATC
ACAACTTTTGTGTGACAAAAAGAAATTATCACCAAAATACACCTCCTTAAGTAAGTGTCT
GATTTCACACTTCCAGAAAAAGTGCTCTTTCTGGTCAAGCCAGCAAGAATTGAGAA
Sequence 2625
CCGCGGTGGCGGCCGAGGTACGCGGGCTCCCAAAATCCTGGGGTTACAGATGTGAGCTAC
CACTCACGGCCCAAATCTTCTTGATCATATGTTTAAATATATTTTTTAATATTTGGAGCA
TGAGTTGTCACTTCTTGTTTGCCTTTTTTATAAGGAAATGTTGGAGAGTTACATCATTGC
TAATGTAGAAATGTTAAGTGGGAAAAATATACAGTTTGGTAAAATAAACTAGATTCTACA
TTTATTTGTGGGTTTTTTTCCCCTCCTTTCTTTCCACAGCACTTTTGATATCAAGCAAGT
GGCTTCCTTTTTGAGATATTAAAAAAAAAAAGAAAAGGAAAAAAGTAAATGAAGCCCAAC
TACCTAACCCTTTCTTATTTGTATTTGTTTTAGTATTGTGAAGTTGTGTTAAATAGTACC
TGCCCG
Sequence 2626
CCGCGGTGGCGGCCGAGGTACTGTTCCCTTCTGATTTGGTCTAGATACCAGAATCCATTC
TCTTCCGTCAAACGGAAGACACAAGGCACCTGAGGCTGATCCTTCCCAGAAATTAACTCC
AGAGGCTGCCACATCTGGTATGAGCGTCCAAACCCAGCATCGACAATGTAGTTCCTGCCA
TCAATGGTCACCTGCAGGAGAAGGTGAATCATGCCAGTGCTGTATTTTTTGGCTGGAGTG
CTGTAAACATACCCTCCCAACATCGTGGTCTCAAAACCAATAGTGGTCAGAGCCCAGTAC
AGAAGATGATTGACCTGGAGACACCATCCACCCCGATTTCTTCTCACAACTTGATCAAAA
ATGGCCTCTAAGCCTAAGTCCATGGCATCCCCACAATGGGATGTTAAGGTTCTCAAAGGG
AACAGCTTCGGATCTGGTGTTGAAGAATGTCAGTTAATGTT
Sequence 2627
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
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TATTCATACTTGTTGACATTTCCCATGGGGAATGGTTNAAGGGAGGGGCAGGGAGGGCTN
ANCGGNAACCCACGGNTTGGTTTTCCCTCCATCCCNNGGGGAAAAAAAACTCTGGTAGGG
NCATNCTAANNAAANGTGANCAGGGGANCCATCANTATGTGGGGCTGAAATNCACTGGNC
AGTGACTTNAGGCAACCNGAGTCCTTTTGTCAGGAAATGCAATTTNTAAGNGGAAAAAAA
ANCAAGNCCCAAAGAAA
Sequence 2628
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GGCAGCAGAGAGGGAAACCTACAAGTGGTTTGCCTCATTGCCTTTGCCACATCTGAAGTT
CTCAGCAGCACTACCTTAGACTTCATGAGCTAATAGGAAACTTTTTATGGTGTAAATGCT
GTAAGACTTTGTACCTGCCCG
Sequence 2629

Table 1

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTAGTAGAAGCAGGGTTTTGCCATGTTGCCCCTTGCCAGAATCAATTCTAA
TTATAGGAAAAAAGTTTCTGAGTAATCAAAATTTTGCACATATTTCTGGNGGATTTCATA
GTTTAGCTTAGGAAACTTGAACTCTTACTGAGTTGGGTCTGCCCATGTANGATGCCTGGT
GTTGGTGTGTGCGCTCTCTTGGTTATAGAATAATCCACCCGAATTCTTCTACCATCCAGC
TCCATTCCATTTGCCCTTTCCATAGCCTATAAAGAACAGGCACAAAAAGTCACCGTATAA
TTCACCAGTCTTGAAGTAATCATTACTTAAAATTAAGCNCAAAGTNTATGTAATCCAAAT
AAACTCCTGATTTTCAAAATGACAGCAATGTAGCTTGTACAGGGCATTTGTAT
Sequence 2630
CCGCGGTGGCGGCCGAGGTACTTCCTCACAGTTCTCACATATGGAAAGGATACACACTTT
GTAGAAACAAGAACTTTATGTTATCCAAGTTCTAGGATAGCCATGAGCTCCA^TTATCTC
AGAGCTCTGAGTCCTCTACTCAATACCCATTGAGATTTATGTGTTCTGAGGCTTTTGTCT
TCTAGCTACTTACTTCATTCTCCATGGGTAACGGTCATTCATCCACATTAACTAATTTCC
TCACTCCAAGCTCTTTTCTAGAGATAATCTCCAGTCCCTGTGCAGAAACTGTCATTGCAC
TTTCTGCTGAAATGGCAGTTTCTTCTCAGCAAGGTGAGATTATGGAATCCAGAATCTTTT
TTCAGGGGTCACATGCCCATTTCCCCACTTGCATGAATGTCGACACTGCAGCCACAGTTT
TGGCCGTAAATGTGAATTTGGCAAGTAACCA
Sequence 2631
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGTTGCTTAAAACAACAGCCA
TTTTATTTAATATCTCATGATTTTGTGGTCAGGAATGTGGACAGAGCTCAGCTGGGAGAT
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GTTAATATGCAGAGTTCAAGATGGTTTTCACTCACATTGACACCTTTGGCAGGGATGGCT
GGAGGGCTGGGCTCAGCCAGATCAGTTAACTGGCGTGCCTGCATATGCACTCTCCACCAT
GGTGGGTCTCTAGAATTGACTCAAATTCTAAGAATTTGGCGATTGTATCCCGTCAGTCCA
AGCAAGCTGGTTTACCGGGAACCACCCNAGNCTGCAAGGGCCAGGGCANCCGTGCCTGCA
AGGCCGTANCATATTGTTTGCTG
Sequence 2632
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTCAGTCTCAATTCTG
GAACTCTAAGAAAAAACGTTCCAGACTTCTACGCAGCTGCCACCTCGGAGGACGGGAGAG
CGGGGGACGAGGAAAGATCAGGATAAGACCCTAACTCCCACAAATGACTCCAGGAAAGGG
AGACCACCACTCCCCGAGCTTTGGAGCGCCGCGCGGGACCCGCGTACCTGCCCG
Sequence 2633
ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTTGGGAGGCTGGAGTGCAGTGGCGCAATCTCTGCTAACTGTAACCTCTG
CTTCCCAGGCTCAAAGGATCTTCCCACCTNTCCTTTGTTTAGCTGGGACTACAGTAGGGC
ACCACCATGTCCAGCTAATTTTCGTTTTTTTANTAAAGATGGGGGTTTTGCCATGTTCCT
CAGACTGGTATCAAACTCCTGGCCTCAAATGATCTTCCTACTTAGGCTGGCCAAAGTGCT
GGGATTACAGGCATGAGCCACCATGCCTGAACTTTAAAAAGCATTTCTACTATATGTTTT
TCTTTTTGATTACCAAAAAACTTNTATTAAAAATCTTTTAAAGTTCATTCAGCAGAANAA
GGAATTAGTCAACTTTAANACATGTTATTTAAAATTAGCCACTTGGGGAAACAA
Sequence 2634
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAAACGGAGTCCCTGAAATAACAGAT
GCAGCCACAGATCAGGGCCCTGCAGAAAGCCCACCCACTTCCCCTTCATCAGCCTCTCGG
GGTATGCTGTCTGCCATCACCAATGTGGTTCAAAACACAGGTAAAAGTGTCTTAACTGGA
GGCCTTGATGCGTTGGAATTCATCGGCAAGAAAACCATGAATGTCCTTGCAGAAAGTGAC
CCGGGCTTTAAGCGGACCAAGACGCTCATGGAGAGAACTGTTTCCTTGTCTCAGATGTTA
AGGGAAGCTAAGGAGAAGGAGAAGCAGAGACTGGCACAGCAGCTCACGATGGAGAGAACC
GCGCACTACGGGATGCTGTTTGATGAATATCAAGGCTTGTCACACCTGGAAGCCCTGGAA
ATTCTGTCCAATGAAAGCCGAAAGCAAGGT

Table 1

Sequence 2635
CGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNTTTTTTTTTTTTGGGA
NANACCANATTNTAAGGAANATCCCCTCGGGGGGAGCTCCATGGTGTGCATTTTGGCTTT
CANGGTATAAAGGGGGAAACAATAGGGAAAGACTTGGNGCAAAAGGGAAGGAACANAAAC
NGACAGATGANAAAAGGAAGATGACANCATTGCAAGTGTTTNTTTAAATCCTNGCCANGC
CAGGCTTTGTTTAGCTACCCTGGTCTNTTNCTGCATACCCCAACCCCCGTTTCCTGGGGA
ATGGGGAGCAAAAAACAGGATCANAGCATGATCTGAAAAAAACACTGAACCTTCTCCCTG
CTGGAACCCCAAACCCACCCCGGGT
Sequence 2636
CCGCGGTGGCGGCCGAGGTACGCGGGATATACAGAAATGAAATGACACTTCTGGGAGGCA
GTAGAAGCAGGAAGTCAATGAATTGAGTAGAGGGTCCCATTCCCTCAGGCTGTCATTGAT
CAGTGACAATTTATAAAAACAAACTGCAAAGTCTGTGGCAAGTGGCTGCCTGCTTCCTAN
AAAGGAGCCCATGAAAGGTTAAACTCTGTGGTCGGTATTTGCAAGCGCCGGGCGTGGTGG
CTCACGCCTGTAATCCTAGCACCTTGGGAGGCCAAGGCAGGCGGATCACCCGAGGTCAGG
AGTTTGAGGATTTGCAAGCAAAAGGTCCTCTCCTGAGTCTTTCCCA
Sequence 2637
TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACAAATGCAGTAGC
CAACAAGATTACCATGCAATCATTAAGGAGAACCAAAGTAAGAGAGCCACTCAAACCAGA
TTTTGAACGCTACTAAAATTAAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGGA
TTCTTTGTAATAGTGATACCTCTGGGGNTAANNAGAAGGGNGGTATGTGAGTTTTAGTCT
ACAGATTATGGCAAATTCAGTGACAACAATCAAATGGTCTAAGATTGACAGTGGCACAGT
TTTACTCTGTGAAGGTAATGTTCAGGACAAATTTCAAGAAAACTAGAAAACCATTCTTTA
CAGCTGAAATCTTTCCCTAACCATTGTTATTTCCACTTTTAAGTCCTCAAGAGATGAGAA
AAGGGAGGTAAGGCTTCCTTATACATTTCCTGCACAATGAAACATTTTTCCTCCTCCAGG
CAAAGATTCAAG
Sequence 2638
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGTATG
AGCGCCGGGACCTGTGACAGGGCTGGTAGCAGCGCAGAGGAAAGGCGGCTTTTAGCCAGG
TATTTCAGTGTCTGTAGACAAGATGGAATCATCTCCATTTAATAGACGGCAATGGACCTC
ACTATCATTGAGGGTAACAAGCCAAAAAAACTTTNTCTTGTCAACANGAACAAGTCATCG
GCTATTGTGGAAATATTCTCCAAGTACCT
Sequence 2639
GGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACANAGTGCTTTTCTGTTTAGTTTT
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GTATGGGGAGGCAAGTGTGGGGGGTCCTTCTCCACACCCACTTTGTCCATTTGCAAATAT
ATTTTGGAAAACNGCTCNTTTTAATTCTGATTGATCAGCCAAAACNGTCCCTGCCCGGGC
GGCCGCTCTANAACTA
Sequence 2640
ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGTG
AAGGTGAGAGAAAAGCTGCCAAGCTGCATTTTAGTCAGTTGGGCAACAGTGAAAATTTTC
TTTTAGAGGTGGAAAAAAGCCTCTCTCTAGTGACCTGGGTAGTTTGCACGGTTTGGCTGG
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CCTGGAGCTTGTGGATAAGCACTGGAATGGCTCCGGCTCCCTCCTCCTCAACAAGAAGTT
TCTCGGAAAGTTTGAAGCAAAAACTGGTCAGAGTGCTGGAGGAAAACCTCATTTTGTCAG
AAAAAATTCAACAGTTGGAGGAAGGTGCTGCCATCTCAATTGTGAGTGGGCAACAGTCAC
ATACTTATGATGATCTTCTGCACAAAAACCAACAGCTGACCATGCANGTGGCTTGCC
Sequence 2641
CGAATTGGTTTTCCCCGNGGTGGCGGCCGCCCGGGCAGGTACCAAAGGTGCAATTTATGA
CTCCAGAAGGANTTCAAAACACATCGGAATCATGACAGCAAGATAACCCCAAGACAGTCT

Table 1

TTTATCAAGTTTTGACGGTTTATGCTGGGCACTGCCAGACTGAACCAGAGCTGGAACACA
ATAATGTTCGAGCGGNCCGCCCGGCCAGGTACTNNNNNTTTTTNTTTNTTNTTTGGATAA
TACTGTTTATTGTCCACGGACCGAGCGATTGCTCAAGAATGATNCAAAGCATCAGAGACA
TGCNCAGTCTGCTTGTCAACTTTCAACAACTCTTGTGTGTTCCCAGCACCGGAAGGCCTC
AGACTTCATATTCCAGCATAAACACAGTGCTCCCCTCCCCCAAAANTCCAAACGGAAACA
AAATCAACAGAGCTT
Sequence 2642
CTTACTTCACTATAGGGGGCCGAAATTGGGTAGCTCCACCGCGGTGGGGCGGGCCGCCC
GGGGCAGGGGTTACGCGGGGGGGGGGAATTTGGGGTNGGGCCATTACCCCACTTCCAAGC
AACAACCAAGGAAAGCCATTGAAGGGTTTTCAATGGAACTTCTTCCTTCTTTCCCTTGGA
ACANGGCTTCTTNGGGCANGGGAAGCCCCTNGGGTTCTTGGTNCCTTANTGGAATCCNAG
AAANGGGCCCGNCTTTTTTGNCCCCCAAAGGGAANTCGGGGGGGGAAAACCCCTTTNGGC
CNTTGAAAACCNNTTAAACCAANCCTTTAAAAAAAGNGGGGAAAAAATTTNCCNNGGTTT
NAAAAAAANACCCCAAAGGGGTTTTTAACCCCCAAAACCACNNGGGNACCCCAAAAAGAC
CCCCAAGGGGAAAAGCCACNAAAGAAATTCTCCAAGCCCCTTTTTTTGGGGGAAAAAAAA
AAGGGGCCCNTTATTAAACNGNGGAGGGCCAAAAAAAAAAAAAAGGCCNTTGTTGGNGGG
GGGGGGGGAACCTTTTNGGGGAAAAAAAACCTTTTTGGGGAAAA
Sequence 2643
NACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCAGAAGCCAG
GGCAGTCTCCACAGCTCCTGATCTACTTGGCTTCTAATCGGGCCCCCGGGGTCCCTGACG
nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
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TCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT
CCCAGAGAGGCCAAAGTACCTGCCCG
Sequence 2644
AACACTTTTTAGGGCGAATTGGAGCTTACCGCGGTGGCGGCCGAGGTACGCGGGGACACC
CTAGATCCCAAGATCTCCAAGGATTTGGTGGCATACCCACTCCAGCACACAGAAGCATGA
GGTTCATGACTCTCCTCTT
Sequence 2645
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTATAACCAGTGCTTTTGGTAACTA
ACAGAATGAGAACTCACTTATTACAGTGAAGATGGCACTGAAACAATACATGAGGGATCT
GCCTCCATGACCCAATCACTTCCCATTAGGCCTCACCTCCAAAATTGGGACTCAAATTAC
AACATGAGGTTTGAGGGGACAGACATTCAAATTATAGTAATTACGAAGTAAAATGAGCAA
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TATGAAGAATGACTTTNANATGTGTAACTTATAAAACTGGATACTATTCACTGAGAGAGG
AAACACTGAAATNGACCAGAATTGAAGATGATGAGTTCC
Sequence 2646
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CTGATAGCATTCACAGAGCAGGAGATTCACCCTTGGAAGCAATTGAATGTGTAAACTCTG
AGAGCAGACACTGACAATGCAATGCCTGCATACCTGACTCCTGGGCTGCCTTCCTTCTCA
GCAGAGCCCACTGAAAGTCTCACGTGTGCCTTTAACCAATGAGGATGGCAGGCCTTATCT
GTGTTTGAAGTGGACAGGTCATTGCTACCCCTGTTGGAGAAGCTATGTAAGAAGGAGTAG
GCTGGCTTCTGGTCTAGTTCGACTCATTCTTTATAGGGACATTTCANAATGATGAGTTGG
CTAAAATTTACTTTAAAGGGGAAATGTAAAATTACCTCTTCTTTTCCTATCCCCTTCTTC
CTTTCCCATCCTGAGCCCTCTGGCAAGGCCTGTTGCAGCTCAAGAAGTTTTTGGTCAGAT
TACAAAGTTACCAAATGGTCAACAGGGAAGGACCCACAAGCAGATTCCAAAAACTCTTTC
ATTCACTTGAAGTTAAACTGAAAATGGC
Sequence 2647

Table 1

CACCGCGGTGGCCGGCCGCCCGGGCAGGTACGCGGGGGCCTCACAGATGATGACTTTCTT
CATCTTCTTGCTCTTTTTCCCATCCTTCACCGGGGTCTTGTGCACCCTGGCCATCACCAT
CTGGAGATTGAAGCCTTCANCTGACTGTGGCCCTTTTCGAGGTCTGCCTCTCTTCATTCA
CTCCATCTACAGCTGGATCGACACCCTAAGTACCTNGGCCCGCTCTAGAACTA
Sequence 2648
CGCCCGGGCAGGTACACATGGGGTTTCACCATGTTGGTCAGGATGGTCTCGAACTTCAGA
CCTCAGGTGATCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
NNACCCAGCCAGTTAATTTTTCTATTAACTACAGACCTANTTAANATTGAGGCAAAANAA
ATGGGTCCTTGGGATTTGAAAATTACTATNCANTTTGGAAGTTNAATTTGCAACATANAT
TGTCTGTTATTAAATTACTAGATATAATATCNCATAGGTGGAAAGAAAGGTTGCTTAATT
AAAGATCTAAGTTACTAGTCATGGTGTCAGATATNGANAATGATTGAANGTTATNAAGAN
TCNCACACCAGATGAGTAAATTGNTGTTTTCNNGAAGAAGTTACATNAANGTNACCGGAG
TATATTTCAGCATTTTTTGNTANATTAAAAAATTTGTNAAGCTATTTTCAATTTCAGGGA
AATACTCTTAACNAANTTTACCGGGTAAAATGACCAAATTCCAGGTTTAATTTTCACATG
TTAACACCCTCCTTGAGCCCCTTTATTTTTTTAAAGCTCTTNAATNTATTTTGGNCCTGA
AATTAACCNTTTCTTTTAAGGAAGAATTTNAAAAATTTTTTTGAAAAAAAGTTGGAAATT
CNTGGAANAGGCCCCTGGTTATNGTTTTTCAAATT
Sequence 2649
GGCGAATNGGAGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTNTNT
TTTGTTNTNTTTTTTGGAGGACTGGGAAATAGAGGACTGGNAATTTGAGCAAATTNTGAG
GAATCTTAAATTCCTATTAGGACACCAATATGACGCATCAATNAATCATTATTT
Sequence 2650
GNAGCTCCACCGCGGTGGCGGCCCGAGGTACGCGGGGAGTCTTGGTTTTCTGCTAGTGCT
GCTGCTGGGAGGACGACGGACGGCAGCGGCCAAGCAAGAAGAAAGACGTGGCAGCAAGCG
GGAGTCGGGGATAGTGTCATCGGTTCGGTAAAGTTTCTGTTCTCTGATTTGGGGATATTC
CCTGCCCAAAAAAAAAAAAAAAAAAAAAAAANGTCCCTGCCCG
Sequence 2651
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGT
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GCCATGTGTTAATATAAAGTAGGCATGGCTTCCCAATGGAAATCTCTGAGAATGACAGTG
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ACGGCACATTTAGGCAGTTGAATATGACCGTTACCTTGCAGACTAAAAGGTTGAAGGCCC
GAAACTAACTTTTAGCTAACAATAAGGGCTGTGCCCCAATGGAAACTGAGTTTCATTTTT
CTGAGAAAGGTTTGGATTGACNTGAAATATTTTCCTCTACAGGTCAAGGGACTTTGGCAT
GTGGTGGCTGAAAACTGGAGCTTTTTTTGTGT
Sequence 2652
CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATGTTT
GCCACTTTGCAAAGGAGCTCACTGTGGTGTCTGTGTTCCAACCACTGAATCTGGACCCCA
TCTGCGAATAAGCCATTCTGACTCATATCCCCTATTTAACAGGGTCTCTAGTGCTGTGAA
AAAAAAAATGCTGAACATTGCATATAACTTATATTTGTAAGAAAATACTGTACCTGCCCG

0

Sequence 2653
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCGAAGATGGGCTTGT
ATCTGGTTTCGGACGGACTGTTAATGACAATTTGATCGACGGGAATTGCACACCCCANAA
TCCACCACAAAAGAAAAAGGTTACAAATTTAACAATTTATAGTCCTTTTAATAGTTTTTT
TTTTTTTCATAATACTACTGAGGGGAATTGGTNAGAATGTATNNATGTAAGGCNTTCTTA
ATTTAAGTTATTAAAGTTTACATTTTTAATATTTTTAAACCTTTTGTAAATGCTTGGCTT
AATTAGAAAATGTTTACAGAAAAGTAAAAAAATTCTAGTAATATGGGAAATCCTTGTAAG
CAGCATGGTTTCAGAAAAATCTCAAGATGATTTATTTCACCAAATTGAGTNTTTTTTTAA

Table 1

AACTAGGNAACTTCCCCAACCAAAAACACANGACNTTGAATAATATTTTTGTGTTATT
Sequence 2654
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CACTTGCCCGCTTTCCAGTCGGGAAACCTGATCTGTGCCAGCTTGCATTAAATnnnnnn
nnnnnnnnnnnnnnnnnnnnnnnnnnnnNGTnnnnnnnnnnnnnnnnnnnnnnnnnnnn
nnnnnNTCGNTTGCGCTCGGTCGTTTCGGCTGCGGNGAGCGGTATCAG
Sequence 2655
CCGGGCAGGTACTCTNTTTTTTTTTNTTTTNTTTAGGCAGNTNAAATCTAGGATGGTGTT
AACCTTGTCTTCATTTNGCCAATNATATNTNAAAAATNANAAACNACATTGAATCTGCAT
TTCTTGGANNAGANNGTNNATAACAAACTATTTCTCAATATTNNGATACTANAAACTAGN
GAAGGNGNCATGGGNTCCAGCNTCTTATCTNTNATNTGAACATGGGTTTCTGAANGGAGC
CTATATNATAATATAAATGGTNTGNNNAAAATGAGGCACTAGCNTTGNCTGNNACTGCTA
TAAAAAAATNACCA
Sequence 2656
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AAGTTTCTTCATTTTGTCAATTATATATAAAAAATTAGAAACAACATGAATCTGCATTTC
TTGGATGAGATAGTTAATAACAAACTATTTCTCAATATTTGTATACTAAAAACTAGTGAA
GGTGTTATAGAGTTTCAGTATCTTATCTCTTATTTGAACATGGGTTTCTGAAAGGAGCCT
ATATAATAATATAAATGGTATGTAGTAAATGAGGCACTGTCTTGGCTGGGACTGCTATAA
AAAAATTACCATAGACCATTGACTAAACCACAAACATATACTTCTCACAGTTCTGGAAGT 0

Sequence 2657
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AAAAATCGACCGCTCAAAGTCAAGAAGGNNGGCGAAAACCCGGACAGGGACTATAAAAGA
TACCAGGCCGTTTTCCCCCTGnnnnnnnnnnnnnnnnnnnnnnnnnnnnCGACCCTGGC
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ATAAGCTCAACGCTTGTAGGTATCTTCAAATTCGGTGGTAAGGTCGNTTCGCTCCCAAGC
TGGGCCTGTGTGCACCGAACCCCCC
Sequence 2658
CCGCGGTGGCGTCTACCTCATTGTCAGCCTCCTGCTCCCCATTTTCCTCATTAGCATTCC
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AGTCCTTGGTGGTGATTTCGGAGCTGGTGTCTACGGCTGCGTCTGACCCCGCGTACCTCG
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CGATACCGTCGACCCTCGAG
Sequence 2659
CCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGAGTTAGTTGATTTCAGTAGTTC
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TGGGACTGGCTTCATCCTCAGGCTAGTAGCAAAATGGTTGCGGTGATTCCAGGCATCATA
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AGAGATTCTGTTAAAGAGGAAGAGGGAGAGAATTGATGCTAGGAAAGTAATTTGGAAAAC
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CTTTTTCAAAA
Sequence 2660
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Table 1

TTTTTTGAGAGGGACTCTCGCCCTGTCACCCAGGCTGGAGTGCAATGGCACGATATTGGC
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AAGGANTAACCAGGCATGNGCCACCACNCCCAGCTAATTTTTTTGTATTTTTAGTAGAGG
CAGGATTTCACCATGTTGTTCAGGTTGGTCTCAAGCTCTTGACCTCATGATCCATCTGCC
TCAGCCTCCCAAAGTGCTCGGATTACAGGCATGAGGCACTGCGCCCAGCTGACTGATTTC
TTTTGGCTAAACACTTTTTAAGTAGATGATCTATTTTTTCCCCCGTTTATGTATGCAATT
ATCACCAGGAAAATTGTAACTATACTCAATAATATGGGCTTTACAATTGGACAGACACTT
TATTTACG
Sequence 2661
AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT
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ATTTTCTGTAACTCACANANTGCTGCAAAATAATGTTAGGGCTTTGCAGTTTATTCCTTG
CNATNTAACTGCNTNAATNTAAAAAAGGGNCCTNACCATTANNNCNCGTTGGGGTTATTC
AAATAACCCAAGGGAATGTAAAGCGATTTCATATCTCCTTGAATCAGGAACATTAATTAA
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TCTGAGTTTAANAAATTGCANACTCTGNGGGAGGGGAGGGAAAAATTNATTTAGTTNTTA
AATTGGAGGGGG
Sequence 2662
GCCGAGGCACCTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGGATGGGTATNTNCCATGTNAT
ACCAACAGNTCATNAACTCCTGGGCATAANCCAGCCTCCCACCAACATCATTAACTTAAT
CANAGCACCAAGTGTCACATATGGTAACACANTCACAACTTCCCANGAATTNAAATTTTT
GGANNAGGTNGTACATTTTTTTNTGGGNCCTTTTNTTTAATTCNTTNAACCCTTTACTNN
NAGGATCTTGGACCCAACAAAANAAAAAAATTGGGCAGCCCAACACTTNTTTTTNCTTCC
CTTTCCTTTTCCTTTTAA
Sequence 2663
CCGCGGTGGCGGCCCGAGGGTACAACAACAAAGTCTGCCCACCTTCTTGTGTGCACCTCT
GTGATCAGAAGTAGCAATCAGTGATCGGATGCAGATCTCTAATATTTGGAAGACAACATC
CTTTTTGCCCACCCTGGAGCCCATAGGCTGCATGCAAGTTTCTCCAAGAACTGGGGGATG
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TTCCATCTTCCCCAACCGCTAGTTATTGAAACTTACTTTAATACAGGAATGTAAGCAGTT
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GAGTAAATCATTTTTCTTTCAAAATAATGTTGACATTGCTCTGTTGAAATCTAGTGTTTA
TTTCAGAGAAAGTCTGCGGCCAGTTTGATTTTTATTTCTTTTCAGATTACCTGGCTCTAA
AGATCTGGGATGCTTTAAATCTTTTTCCTTTTAATCAAATAACCCATGAAAATATCTTGG
GTGTGCCCGCGTACCTGNCCNGGGCGGGCCGNTCT
Sequence 2664
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCCGGNCNGGTACGCGGGGGGAGA
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TATAAACATCCTGCANGAAAATGANTCAAGGAAGCTTTTCTTTTGAGCTATTTACAGCTT
NTAGCAATTGAGTAAAGTATACTCCTGTGAACAAAATNNTGGAACATATNNGTNNNTCTC
TAACTGATTNCTCCANAATTTGGAACTAGTTCAGNGAANTNNAAGAGACAGGGATATCCC
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TTTGACATGCTTGGTGTNCTTGCCCAAGCTTTGAAGAAGTTTACAAAGTCTATATGTCAG
AATACACATTTCCC
Sequence 2665
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAATGTGT
GGCAGTCCAAAATTACGAGGAAAATGAGTTCCCTTCATGGGTCACATCAGCAATTTTTTT

Table 1

TTCCCCTTTTGAGACAGAGTCTTGCTCTGCTGCCCAGGTTGGAGTGCAGTGAGACCCCGT
CCCAAAAAAAAAAAAAAAATGCAAGTCTGGAAAAAATATAGCTNGGGAGTCAGTAATGCC
AGTTTTAGCTGAGGGAGTTAAGATCATTTAATCAGTGTTAAGGAAGAAACTCAATAGTAG
TGACCACCAATACTTAAGGAAAAAGGATAAAGTACCTN
Sequence 2666
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTGAAGTGTGACTAATGTGACCAAGGGAACTG
AATTTTAAATTTTATTTACTTTAAATTAATTTAAACTGAAGATAGCGACATGTGGCCAGT
GGCTACCACATTGGATACAGCCTTAGATTCCTCCCAGACCAGACAACCTTCTGTGGCCTT
CCAANGTTGNAACAGCAAACTCACACTGTGGGCAGCCAGGCCTGGAGTGGGGCCCAGCAA
GCCGCATCCTGGGGTCAGGTCTGGCCAACTAATTATCTACTGTCTATGGTCACATTAGTG
CTACAATGGCAGCATCGAGCAGTTGCAACAGAGATGGTGTGGCCTGCAAAACTGAAAATA
TTCATATTTACTATCTGGCCCTTTACAGAAAAACATGCTGACCCCTGCACTACAGCAATT
AGTTTTGGAGAGAACATTCCTGATAAAAGCTTACATCTTCTCTCA
Sequence 2667
CGACTCACTATAGGGGCGAATTGGGAGCTCCCCGCGGTGGCCCGGCCCGCCCGGGCAGGT
ACAATCTCTGGCCCTACATTTTCTAAATGTTATGCCACCCCGACCAAGGGGCAACTCCTA
CAAAGCCAGGCAAAATAATAAAATCATATTTGTCTCTAGTGGAATGGATAACTATGCCTA
AAACTGTGCCCTTTGAAAAGCAACTAGAGAGATAATTTCTGAAGTGTTTGTCCCTACCTG
AATGTGTGGCAAAATTCTAAACTCCCTGAAGTGTGAAAGTGGTTTCCAAGCCACATGCAC
ATCCAGTAGTGGTAAAGGGTGAAAATCTAACTGGCTAAGAGGGCTTCATAGCAACATTAA
CCAAAAAGTGGTTTATGTAGTCTTTGCCTGCTTCATAATTCCCTANGCATTCTATGCTAT
TCTGCACCT
Sequence 2668
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TGTCTTTGAGTGTCCTATTGGACTACAGATTAGAGGATAATAAAGAACATTCATTTGAGG
TTTCATTGTTTGCGGAACTTTTCAACGAAATGCTTCAAAGAGATTTTGGTGTCCGTATAT
ACAAATCATTACTGTCTCTTCCTGAGAAAGAGGACAAAAAAGAAAAGGATAAAAAAAGCA
AAAAAGATGAGAGAAANGATNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANGGTCACC
GTTAAGAAGTTGAGCTTTTATCTTAGAGGCAGCAGAAGGTTTGGAGCCAAGGAATGAAAT
GATGAGGCGTCCTTCAGGTAATGAACTTCAGCTGCAGTGTGAAAGGGGCAGGAAGACTGG
CAGCTGTCAAAACTGGAACAGTCCAGTGAGTATGTNCAGGCCCGGGCTTGGGCAGTGACC
ANGGCAGGGAGCACCATCAATTTCTGCGGTAGAACCTTCTAGAGGAAGACCANACAGAGG
GTCAACAAGAGTTGAAAGGAGAAAAATATTGAGGATGANGTCCAAGTTTTTAGTTTCAAA
ANACTAGGCATATGGGTAATNCCGCGTCCTTGGCCGTTNTANAACTAGGGATCCNCGGGC
CTGAGGAATTCGATATCAAGCTTATTCGATCCCGCCANCCTCAGGGGGG
Sequence 2669
TCACTATAGGGCGAATTGGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCTGAAAGTGACG
GGGAGAATGGAACCAAGTTGGAAAACACTTTGCAGGATATTATCCAGGAGAACTTCCCCA
ATCTAGCAAGGCAGGCCAACATTCAAATTCAGGAAATACAGAGAACGCTGCAAAGATACT
CCTTGAGAAGAGCAACTCCAAGACACATAATTGTCAGATTCACCAAAGTTGAAATGAGGA
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ACTAACAGCTGATGTCTCGGCAGAAACGCTACAAGCCAGAAGAGAGTGGGGGCCAATATT
CAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATTTCATATCCAGCCAAACTAAGCTT
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CAACATTTGAATATTATAACCTGCAGGGGTCTGTCCTGCAGATGGTTGAGACCATAACCA
GATACTGATATTCAGTGAAAGAGCAGCAAGGATTTCCGAGCTGATTACCAGACCCCAANG
GAAGATGCTTGTAAAGAGCCCNCCAGCCACAGNCCTGGCTTGCTNGCCCTGGGGGCATTT
ATTTAGTAA
Sequence 2670

Table 1

AGGGGCGAATTGGGAGCCTCCACNCGCGGTGGGCGGCCCGAGGTACTTTTTTTTTTTTT
TTTTTTNTTTTGGGCCTAATTGCTTTGGGCTGAAGACAGAGTGAGGCGATGTACTGTAAG
GCGAACACCTTNTGCACAGCAAACCCGTNATTCGCTCACCTGTNTGNGGTNAGGCTCTTG
TAGAGAGTGANCACTCACTANTAGTTTTTAATAATAAACCANGTAACCAAAGTGAGATGA
AGGAACTATTTTTGGA

Sequence 2671

CCGCGGTGGCGGCCGAGGTACAAGGCATTTAGAGAAAGCTTTTTGATTCCATTCAATCCT
GGAAACCAACATGTTGAAGGGCCAGATTTTCCACCATTTTATAGGGATGCAAACTTTAGC
TCAGAGAGGTTAAATGACTTGCCAACAGTCACACAACTAGCACTTAGAGGAACGGGAAGG
CTAACTCGGAGCTGATGCTGCAGCTTACACTCACTCCCCACTCCCACGCAACACAAACTC
TTTCTAGGCAGCTTCGAAGGTACCTGCCCGGGCGGCCGCTCGA

Sequence 2672

AGGTACAACGCCTGGAACGAGAAGCGCAGGGTCTACGAAGAATAGGGTGAAAAACCTCAG
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AAAAAAAAAAGCCTTTCTTTCTCACAGGCATAAGACACAAATTATATATTGTTATGAAGC
ACTTTTTACCAACGGTCAGTTTTTACATTTTATAGCTGCGTGCGAAAGGCTTCCAGATGG
GAGACCCATCTCTCTTGTGCTCCAGACTTCATCACAGGCTGCTTTTTATCAAAAAGGGGG
AAAACTCATGCCTTTCCTTTTTAAAAAATGCTTTTTTGTATTTGTCCATACGTCACTATA
CATCTGAGCTTTATAAGCGCCCGGGAGGAACAATGAGCTTGGTGGACACATTTCATTGCA
GTGTTGCTCCATTCCTAGCTTGGGAAGCTTCCGCTTAGAGGTCCTGGCGCCTCGGCACAG
CTGCACGGGCTCTCCTGGGCTTATGGCCGGTCACAGCCTCAGTGGGACTCCCACAGNGGC
CCCTGTANCCCGGGGCAAGCAGGAACAGGGTCTTTCTGCATCTGTTTTCTGGAGGAACTC
AAGGTTTGGGTTGCCCAGAAAAAAATGTGCTTNATTCCCCCCTNGGTT

Sequence 2673

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCCGGCCGCCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTTTTAGGNCGAATGCAGGGTTTTATTGAGTGGTGGAGGTGGTTCT
CTGAAGGATGGATGCAGAGCTGGAAGCGGGGATGGCACGGGAAGATAATCTTCCTGCTGG
GTGGCCAAACCTNTCCGACCACCCTCGGCTGAACTCCTCTCGGCGTTCAAATGTTCCTCT
TCTCTCTTTCTCTGCTGTATCGTTTCACCATTCATCTGCTTGTCTGGGATGGTGAANACA
ACTGTTTGCTCATTTGCTTGGCGATAGGTGATTGTCTCGCCGCTCAGCTATAGGCGATGG
TCTCACCACTCGGTGATAGGCGATTGTCCCATCTAGGTCGCCAAAATGTGTCTGGAATTG
GTGGGTTCTTCGTCTCACTGACTTCAANA

Sequence 2674

CCGCGGTGGCGGCCGAGGTACAGGAGACTTTCTGATTTCCAATCTTGGCTCAGGTCAGAA
GAAAAAGGGGAAAGGTTACATTCCTGGAAAGAAAATACAGCCTATTTGAGGGCATGCCTG
ACTTTCAGTCCATGCACTAGTCCTCTTGGCTCGTAGAGTTTTCAGTGCCCTGAAACCATG
ATCCCTCTGCCTCCATGGTCCTCTGAGTGTAGTTATTATGTCTGCAAACCAGTAATGTCA
CAAGTCAAAGGGTCTGGGGCTTCCCAGGGAACCACTATGACTGAGTATATTCTGATTTGA
GAAACCTGTGACAAGTCTTCTCAGCACTCGCCTTCTAATTTTTGGAGCCGATGCCTGGGT
TCCCAGCATCCAGGTCACAGTAGCTGGAAATCATGCAGGAAGGGCAAAAAGCCAGCAGCC
CAGAATGGACTGTCTCTGCAGCTCTGGCACATTCTCTACACATCGCCACACCACTCAAAT
GTCCTATAAAATATCAAAACCAATAACCTGGACATGACCCGATTAATCTGTACCTGCCCG
GGCCGGCCCGCTCTAGAACTAGTGGGATCCCCCGGGGCTGCAGGAAATTCGATAT

Sequence 2675

CCGCGGTGGCGGCCGAGGTACTTCAGTTTCTCTAGATTACCATGTAAGACAGCTCTGTGG
ATCCTCTTCAGATGATACGGTTTAATGGGGTATTGGGGAAATGCGAAGCCATCCGAGCAC
AAGCGCTCCATGAGGGTGGGCCACCTCTCCCGCTTGCCGTCTTCCATAATCGTCGGCTGC
AAATTGTAGCCTGCAGCCGTATTTCAGCTCGCCTTCGGGGATCGCCGCCTCCGAAGAGCA
ACAACGAGCAAAGCAGTCTGTCCACGGACCTCCGCACAGACTCTCAGCGCCTCCCGCCTC

Table 1

TCAGCAGAAACGCCCAACAGAAGGGTTAGAACCAGCGAGCACGCGCACCTTAGCCGGCCC
TCCCCGCGTACCTGCCCGGGCGG
Sequence 2676
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ACACATTTCCCACCTTTGCCCANCNGTNNNAAAACCNTAGGAAGGANGAAAAANCATTTA
AAAAATGACACNGGAATGTTAATGGAAGCAATGTGATGGTCGTTTTGGAGGTGGAACCCT
TTCAANAAAGGTAATTAAATGCCCTTGGTTAAGAAGAAGGCCAAAAGAAGCTTGCGCACC
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Sequence 2677
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CCAAAATCTTCAGACTGCAGTCCACTGACGACGAGAGTGAAGTCTGTCCCAGACCCAGAG
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GGAGCCTGGCCAGACTTCTGGTGGTACCTGCCCG
Sequence 2678
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CNTCCCATTAACTTNGAAGTTTNTNTTGATTAATANAAAAAAAAAGGGGAGGGNGAAAAA
AAGGNGGAACATGCTAAAAACCTTNTGACAATCNTNCAAATGTCCCGCGTACCT
Sequence 2679
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AGCACACAGTGAGAAGGAAAGAGGCCCTCACCAGAACCTGACCATGCTGGCACCGTGATT
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CTGTGGTGTGTTTTATGGCAGCACAAGGTAACCCAGATGATGCTTTTCACCACTGGGTGG
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Sequence 2680
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TCTAATATATTTGAGTCATTTTATTTTGGGTAAAATAAATTATAGGTGGAGCATGGTGGC
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AATCTGTTTTAAGTATAGAACATCATGAAATTGGAT
Sequence 2681
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GAAGTGAGTGGCATCTATGTATTTTTTAAGGTATATAATGAAATTGTGCCTAGGGGAGTN
ATAATNCACTCTATGTA
Sequence 2682
CGCGGGATGGAAAGAAATGAAGACANTTTTAGACNTGCTAGACTNATGGTTGACTATACA
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Table 1

ANTAATGTGGTANTCAAAATANGAGTTANGTAACTACTGACANATATAAGGAAAGTCGTA
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Sequence 2683
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Sequence 2685
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Sequence 2687
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Sequence 2688
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TGTGATCTCCAGCCTGGTCCCCTGGCCAAAAGTCCGAGGGATACTGCTACTCTGTTGACA
GTAGTAAGTTTNCAAAATCTTTCAGGTTGCAGAACTGCTTGATGGNGAAGAAGTGAAATC
TGTCCCAGATNCACTGCCACTTAAACCTTTGATGGGGACCCNACTTTTGCAAACTGGGAT
TGCANCNTAAGAATGAGGGAGTTTAGGGGGGCCTTTCCCTGGTTTCTTGCTGATNCCAAT
TTTAAATAGATATTAATGGACTTGACTTGCCCC
Sequence 2689
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CACACCAGCTNATGGAGNTGNCNCCANTCTGGNNAANGCNNGNCCACCAAGAAGGGCTNG
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